THE CHEMIST AND DRUGGIST

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APRIL 26, 1919

TRADE MARK A.D. 1715.

NOTICE.

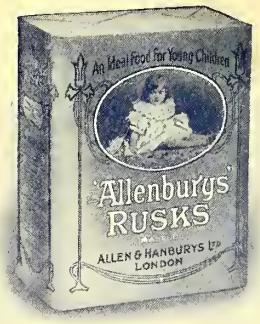
TRADE MARK A.D. 1715.

The "Allenburys" Malted Food No. 3.

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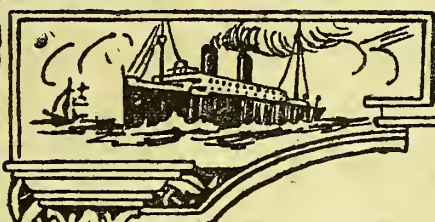
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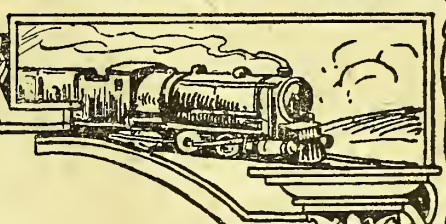
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A Glasgow Pharmacist writes:—"Your tablets were simply great."
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*Address*_____ *Date*_____

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*Signature*_____

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113 Temple Chambers, E.C. 4.

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1/6	Malted Food No. 3	1/6	14/5 doz.
3/-	,, ,, ,,	3/-	28/10 ,,
7/6	,, ,, ,,	7/6	72/- ,,
15/-	,, ,, ,,	15/-	144/- ,,
Gibbs'—			
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For ALL PURPOSES.

PERFECT PURITY.
Highest Colour Value.

IMMEDIATE DELIVERY to Manufacturers and Wholesale buyers only.

E. J. HAY & CO.

THE Caramel Specialists,

Essex Wharf, Limehouse, LONDON, E. 14,
AND
104 Sackville Street, MANCHESTER.

THE

Dr. Muller Nutrient

"Preparations of which the Muller Nutrient is a very good example may legitimately be described as 'Nature Remedies.' These will no doubt have an important place in therapeutics, and hold out much hope and promise in the future of medical practice."—THE MEDICAL TIMES, Aug. 18, 1917.

Special 4-week Bonus Offer,

APRIL 12 to MAY 10 — 3rd Week of Offer.

3/- P.A.T.A.

SELLS AT FACE PRICE.

The advertising of the Muller Nutrient is not "the mere repetition of a name" but is *interesting* and *educational* regarding NERVE TROUBLES. The result is that it CARRIES WITH IT AN UNUSUAL PROPORTION OF *STEADY REPEAT BUSINESS.*

Announcement by the Muller Laboratories, Ltd., Scientific Food Specialists, Controllers of the Muller Nerve Nutrient:

Any Pharmacist who sends us an order for one dozen Muller Nutrient, 3/- size, between the dates April 12 to May 10, will receive the following special terms—

1 doz. Muller Nutrient (Face Value 3/-) ...	**£1**	**16**	**0**
Trade Discount...	**0**	**6**	**0**
	1	**10**	**0**
Cash Discount ...	**0**	**1**	**6**
	£1	**8**	**6**

And a Special Four-Week Advertising Bonus of 3 Boxes (@ 3/- each) which reduces the actual cost to 19/6.

85% PROFIT ON OUTLAY.

The Muller Nutrient is well advertised, and is a Standard Nerve Nutrient of the highest quality and therapeutic excellence. It is an invaluable preparation for Nerve Sufferers, especially Mental Workers who use it and come back for more at intervals; and it carries with it an *unusual* proportion of Repeat Business.

The only Nerve Food in solid form that can be eaten and masticated like ordinary food.

THE MULLER LABORATORIES, LIM.

Scientific Food Specialists,

144 Albany Street, LONDON, N.W.

Bonus Direct Cash Order.

THE MULLER LABORATORIES, LTD.,
Scientific Food Specialists, 144 Albany St., N.W.

Please send me, carriage paid, with showcards, 1 doz. 3/- Muller Nutrient, and 3 Bonus boxes. I enclose remittance, and will make a display in return for your concession.

Name .....

Address .....

EKLIPS ZINYL
TRADE MARKS.
Telegraphic Address: "EKLIPS LONDON." A B C Code, 5th Ed.

On the List of Government Contractors, The Crown Agents for the Colonies, etc.

Telephone No.: 1831 Hop.

MEDALS AND AWARDS:
LONDON, 1881. VIENNA, 1883. CALCUTTA, 1884. CHICAGO, 1893.

SYNTHETIC OTTOS

"ZINYL" Brand (Regd.)

TRUE SYNTHETIC PRODUCTS

¶ The fact that the most delightful odours can be produced synthetically is not yet fully grasped, but it is now nearly seven years since these Synthetic Ottos, "Zinyl" Brand, were introduced, and during that time the whole of the trade journals have written in very eulogistic terms of them.

¶ To Buyers who have not hitherto bought these Synthetic Ottos their use will come as a revelation, and as in most instances the Ottos are actually stronger than the essential oils they are intended wholly or partially to replace, they are most economical in use, while their similarity to the actual flowers is surprising.

¶ The Synthetic Otto of Neroli, "Zinyl" Brand, for instance, used in the proportion of ¾ oz. to the gallon of spirit is equal to a concentration of 220 times, thus showing an enormous advantage over the ordinary "Concentrated Perfumes," generally abont 1 to 40 parts of spirit; this Otto forms an excellent basis for Eau de Cologne, and we suggest a reference to "Pharmaceutical Formulas" for many admirable forms.

¶ The price of this Otto is, to-day. 8/6 oz., against the present cost of fine Oil of Neroli, about 31/- oz., and five drachms of the Synthetic Otto are equal to one ounce of the natural oil.

¶ We ourselves ship a good deal of Eau de Cologne in bond, and put up an excellent quality, with Farina script label, the basis of which is our Synthetic Otto Neroli, so that the price is advantageous.

For all Toilet Preparations these Synthetic Ottos show surprisingly favourable results.

H. E. STEVENSON & CO.

Manufacturing Chemists and Wholesale Druggists,
122 GREAT SUFFOLK STREET, LONDON, S.E. 1

"John Bull" Admixture

of

MALT EXTRACT & COD LIVER OIL

Messrs. PAINE & CO., LTD., wish to inform their numerous friends that the enlargements to their **MIXING PLANT** *are now completed, and as soon as present orders are executed, they will be able to deliver with their former promptitude.*

PAINE & CO., LTD., Malt Extract Manufacturers
ST. NEOTS, HUNTS.

Quin-Quenna

BETTER THAN A SHAMPOO

Get this Fine Display



In your window and on your counter, It tells that you are selling "Quin-Quenna" — instead of ordinary Shampoos. "Quin-Quenna" is advertised in every leading paper, and will earn big money for you.

P.A.T.A. 6d. per Packet.

Price 48/- per gross. ½-gross boxes.

ADVERTISED EVERYWHERE.

NEEDS ONLY SHOWING TO SELL.

Your Profit is 36/- on each gross.

Clip this Coupon.

Attach it to your postcard or memo., affix ½d. stamp and post, so that "Quin-Quenna" may start earning for you—NOW.

Special Bonus Offer.

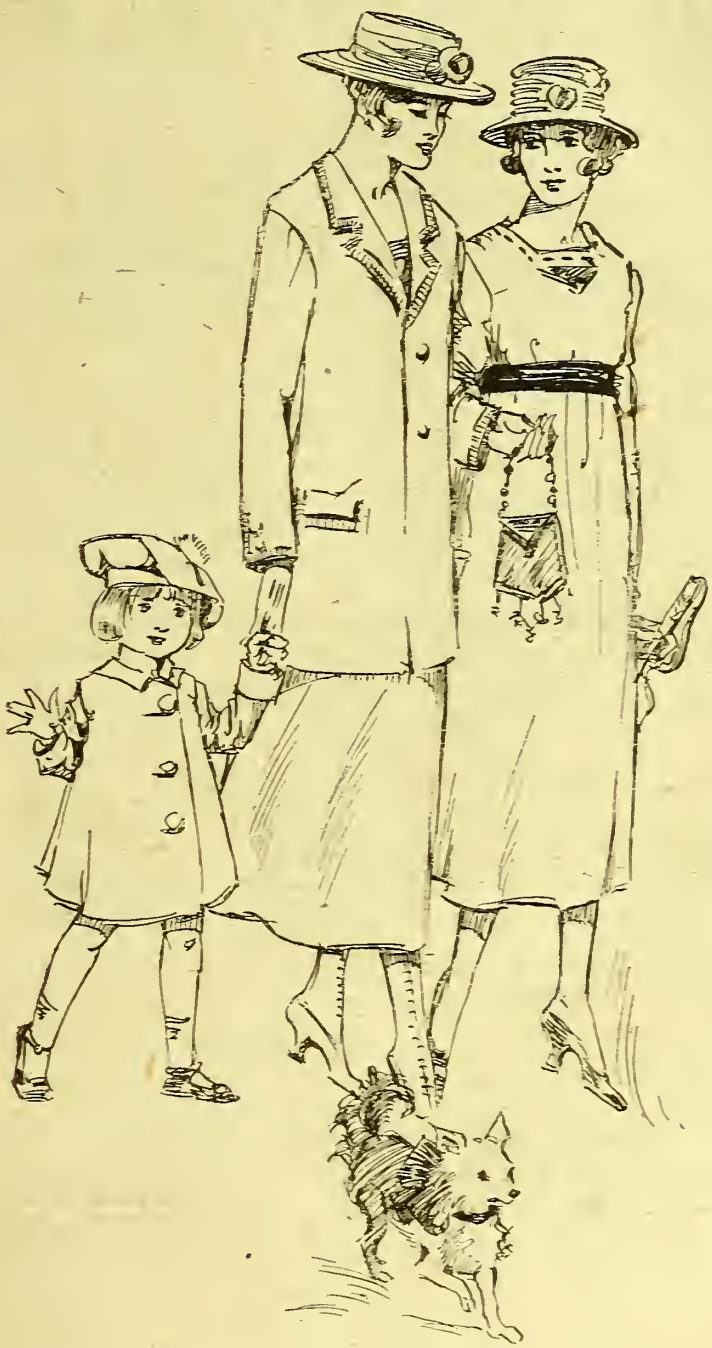
Send me, carriage paid by return, special display "Quin-Quenna" Box, containing ½-gross packets and *1 doz. Bonus* with free advertising material.

To CHRISTY'S.
Old Swan Lane, London.

Wholesale—CHRISTY'S,
Old Swan Lane, LONDON, E.C.

MAW'S PAGE

S. MAW, SON & SONS, LTD., 7-12 ALDERSGATE ST., LONDON E.C. 1, ENG.
No. 393 April 26, 1919



That the fresh, full bloom of youth is protected and enhanced by the regular use of Maw's 'Parex' Toilet Preparations is being realised and acted upon by a greater number of people every week. . . .

Have you ever studied the profit side of the 'Parex' proposition? It's considerable, and safe—because 'Parex' means Perfection and ensures steady sales.

THE HOUSE OF MAW.

RECOMMENDED BY THE MINISTRY OF FOOD
for INFANT FEEDING and Nursing Mothers.

AMBROSIA
DEVONSHIRE FULL CREAM DRIED MILK.

Prepared in a specially constructed Dairy and Works in Devonshire; all the recommendations of the Local Government Board's eulogistic Reports on Dried Milk being scrupulously observed.

A NEW AND PROFITABLE LINE FOR CHEMISTS.

Until recently, practically the entire production was taken by the War Office for Hospital Use. Full supplies are now available for the public, to whom the freshness and purity of rich Devonshire Full Cream Milk must increasingly appeal.

Retail Selling Prices, **2/3, 4/-, 7/6, 35/-**

Sole Producers:—
AMBROSIA, LTD.,
Brighton Chambers, Denman Street,
London Bridge, S.E.1.

Dairy & Works in Devonshire. Telephone: Hop 927.

TRADE MARK

"FRAME FOOD"

THE MOST ECONOMICAL INFANTS' FOOD.

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.



LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."
The Practitioner.

VIROPHOS

TRADE MARK

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ..	9/-	per doz.
„ 2.	3¼ „ „ ...	14/6	„
„ 3.	6½ „ „ ...	24/-	„
„ 4.	12 „ „ ...	42/-	„

MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."
British Medical Journal.



Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35–42 Charlotte St., London, E.C. 2.

Every package of Sanatogen & Formamint

now introduces the customer to

GENASPRIN

(Brand of acetyl-salicylic acid)

THIS is done by the enclosure of an attractive 8-page folder which fully explains the merits and uses of Genasprin and has already proved itself a first-rate sales-producer.

Genasprin is going strong—remarkably so for a new preparation, and, if it is true, as Mr. H. Gilleghan recently said at Leeds, that "the proprietary article has been one of the greatest blessings the retailer ever had, and brings innumerable opportunities to secure new customers," then Genasprin should be as welcome to the retail pharmacist as it is to doctors and the public.

Whenever you sell Sanatogen or Formamint remember that the customer is a potential buyer of Genasprin, and take the opportunity to remind him of it. Impress on him that its absolute purity is unequalled even by the German aspirin of 1914, that it does not contain a particle of "free" acid, and that a leading physician describes it as "entirely free from harmful ingredients."

Such personal recommendation from you influences the customer far more than you yourself may realise. It adds enormously to the selling-power of press-advertising, and represents that close co-operation between retailer and manufacturer which makes a good proprietary line so profitable to both.

NOTE.—As an emergency measure we are now supplying Formamint in ordinary white-glass bottles as well as in the familiar amber-coloured bottles, and this is being explained to the public in our advertisements.

GENATOSAN, Ltd. (British Purchasers of The Sanatogen Co.)

12 Chenies Street, LONDON, W.C. 1. *(Chairman :* The Viscountess Rhondda.*)*

BRAND'S ESSENCES
OF
BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

BRAND & Co., Ltd., MAYFAIR WORKS, VAUXHALL, LONDON, S.W.

VIKING CHEESE RENNET

WHOLESALE.	RETAIL.
24/- per gallon tin	29/- per gallon tin
12/6 „ ½ „	15/- „ ½ „
6/3 per quart jar	7/6 per quart jar
3/- „ pint „	3/9 „ pint „
1/7 „ ½ „	2/- „ ½ „

VIKING ANNATTO

WHOLESALE.	RETAIL.
12/6 per gallon jar	15/6 per gallon jar
6/6 „ ½ „	8/- „ ½ „
3/6 „ quart „	4/3 per quart jar
2/2 „ pint „	2/6 „ pint jar

These prices include containers and carriage paid.

VIKING RENNET and ANNATTO must not be resold to Cheesemakers at more or less than the retail prices stated above.
VIKING ESSENCE of RENNET JUNKET TABLETS, and JUNKET POWDER. *Prices on Application.*

Sole Manufacturers—
THE VIKING RENNET CO., LTD., 19 Clapton Square, London, E. 5.

LONDON. If we can **SAVE YOU MONEY** by quoting you NEW YORK.

RELIABLE GELATINES

at PRICES LOWER than you are PAYING, you will appreciate that we don't need a full page to bring it to your notice—YOUR BUSINESS INSTINCT will do that—all you want is our address:

Telegrams: "Maiden Southport"
Code: A B C, 5th Edition.

ALBERT E. MAIDEN, SOUTHPORT

A postcard to-day will bring you samples and rock-bottom prices by return.

Telephones: 244 & 540 Southport.

Essential Oils & Crude Products
for Soap Makers. M. GILBERT, VINCENNES, Near PARIS.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom.
BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

Pure Complexion Wax and the difference!



There are almost as many Preparations for the Complexion as there are complexions, but one Preparation which differs completely from the ordinary run is
PURE COMPLEXION WAX.

The improvement in appearance is visible immediately Pure Complexion Wax is put on the Skin, and—this is important—the improved appearance is not transient as in the case of most of the Vanishing Creams.

Further, Complexion Wax acts as a protective covering for the Skin, thus avoiding the effects of Sun, Wind, Rain, etc.

Applied before setting out for a Spin on motor or bicycle, it will prevent that prickly smarting sensation, and preserve the natural softness and whiteness of the Skin.

We are completing all orders in full, and prices are—

Retail - 1/3 per Tin ; 7/9 per dozen
Wholesale - - - 80/- per gross

WE PRINT NAME AND ADDRESS ON THREE DOZEN AND UPWARDS, AND SHOWCARDS ARE FREE UPON REQUEST IN ACCORDANCE WITH OUR CUSTOM.

Another Season's service—

Ayrton's Straw Hat Cleanser will make last year's Straw good for another season's service!

Retail - **3d.** per packet
Wholesale - **1/9** per dozen
20/- per gross

Ayrton, Saunders & Co. Ltd. LIVERPOOL



ICY-HOT
VACUUM FLASKS



WE are pleased to inform our Customers we have just received a consignment of the above well-known Flasks and in the two most popular kinds.

Delivery Immediate.

Pint 11/6 each
Imitation Leather, Enamel on Metal.

Pint Refills, 9/- each.

Pint 14/9 each
Nickel Plated Corrugated.

HENRY C. QUELCH & Co.
4 & 5 Ludgate Square, London, E.C.4.

The Display of well-advertised high-class lines marks the progressive trader, and attracts the best customers.

FAWCETT'S Natural Process BARLEY

FAWCETT'S, Barley Food Specialists
CASTLEFORD, Yorks.

Recommend it for Convalescence



Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

FREEMANS REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to
The Watford Mfg. Co. Ltd.
Defectaland, WATFORD

Freemans FOOD PRODUCTS Watford S.A.A.

HAYWARD'S

Eureka WEED KILLER

"EUREKATINE" FUMIGANT. INSECTICIDES. LAWN SAND. WORM KILLER AND ALL GARDEN CHEMICALS.

EASIEST TO SELL. STRONGEST & SAFEST PACKING.
PROTECTED PRICES. SALES THROUGH AGENTS.

Please write for Advertising Particulars, Window Displays, &c. **TOMLINSON & HAYWARD, LTD., LINCOLN.**

HAYWARD'S SHEEP DIPS

Approved by the Board of Agriculture, and used in all Sheep Countries.

HAYWARD'S

Yellow Paste Dip.
Combined Glycerine Dip.
Liquid Dips.
Non-Poisonous Paste and Cake Dips.

Attractively packed with Agent's own name if desired.



HAYWARD'S

Foot Rot Paste and Liquid.
Sheep Marking Paints.
Lung Worm Specific.
Warble Fly Smear.
Luddington's Oils
Condition Powders, and
Veterinary Medicines.

GOOD SELLERS! GOOD PROFITS! ATTRACTIVE ADVERTISING MATTER!

Write for Particulars to Sole Manufacturers **TOMLINSON & HAYWARD, Ltd., LINCOLN.**

Necessary Dairy Preparations.

60 Years' Reputation.

TOMLINSON & CO.'S

BUTTER POWDER,
BUTTER COLOUR,
PRESERVATIVE,
CHEESE RENNET,
CHEESE COLOUR,
&c., &c.

ATTRACTIVE ADVERTISING.



WILLSON'S

LIQUID ANNATTO,
JUNKET TABLETS,
CURD PRODUCER,
LACTIC ACID FERMENT,
&c. &c.

Please note: TOMLINSON & HAYWARD are now the sole proprietors of these preparations.

WRITE FOR LISTS, &c. **Tomlinson & Hayward, Ltd., Lincoln.**

DEARBORN Limited,

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialties.

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	a complexion soap	10/-	1/-
PROLACTUM	for the lips	10/-	1/-
PARSIDIUM JELLY	for wrinkles	10/-	1/-
ALLACITE OF ORANGEBLOSSOM	a dressing cream	22/6	2/6
BORANIUM	a hair tonic	22/6	2/6
CLEMINITE	for a face lotion	22/6	2/6
COLLIANDUM	for a face-tint	22/6	2/6
ONALITE	a foot powder	22/6	2/6
PERGOL.	a deodorant	22/6	2/6
STALLAX	for a shampoo	22/6	2/6
JETTALINE	for clearing the skin	31/6	3/6
PHEMINOL.	a depilatory	36/-	4/-
MENNALINE	for the eyelashes	36/-	4/-
MERCOLIZED WAX	a face cream	31/6	3/6
STYMOL	for oily complexions and blackheads	36/-	4/-
BARSYDE	dandruff eradicator	22/6	2/6
TAMMALITE	for grey and faded hair	22/6	2/6
LIQUID PERGOL.	to check excessive perspiration locally	31/6	3/6
BICROLIUM	for whitening the hands	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES.

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA.
ALL WHOLESALERS and DEARBORN Ltd.
Grace House, Clarence St., Sydney.

SOUTH AFRICA.
LENNON & CO., Ltd. (Cape Town)
SIEVE BROS & KARNOVSKY (Johannesburg).

INDIA.
KEMP & CO., Ltd. (Bombay).
SMITH, STANISTREET & CO. (Calcutta).

NEW ZEALAND.
SHARLAND & CO., Ltd. (Auckland and Wellington).

SOUTH AMERICA.
DEARBORN, LTD.
CALLA SALTA, 264, Buenos Aires.

VEN-YUSA PREPARATIONS

Special Window Show Offer

YOU purchase an assorted Parcel of Ven-Yusa Cream, Soap, and Shampoo Powders value	£2	10	0
WE allow you for Showing Cards	0	5	9
Nett Credit Terms	£2	4	3
IF CASH ENCLOSED deduct 2½%	0	1	3
Nett amount to send	£2	3	0

Your Profit on the Investment will be 50%

Larger Orders are accepted on pro-rata terms, 2½% extra allowed on orders of 12 times above quantities, if cash with order.

MINIMUM PRICES FACE VALUE.

ORDER FORM.

To Messrs. C. E. FULFORD, LTD., Carlton Hill, Leeds.

Date.....

Dear Sirs,—Please supply on Window Show Terms £ s. d.

.....*Gross*.....*Doz. 1/- Size Ven-Yusa Cream* @ *9/3 doz.*

.....*Gross*.....*Doz. 6d.* „ „ *Soap* @ *4/6* „

.....*Gross*.....*Doz. 1/6* „ „ *Shampoo Pdrs.* @ *13/6* „
(7 3d. Shampoos in pkt.)

.....*Gross*.....*Doz. 3d. pkts* „ *Shampoo Pdrs. 22/- gross*
(6 doz. Cartons only.)

Remittance enclosed £ : : £

Name and Address.....

MINIMUM PRICES FACE VALUE.

NOTE.—If Cash does not accompany Order, references should be given for New A/cs.
Credit Terms are Strictly Nett, 30 days.

DO YOU KNOW—

That thousands of firms have discarded the bound-book Ledger and adopted the **Loose-Leaf Ledger?**

That *not one* firm has reverted to the old method.

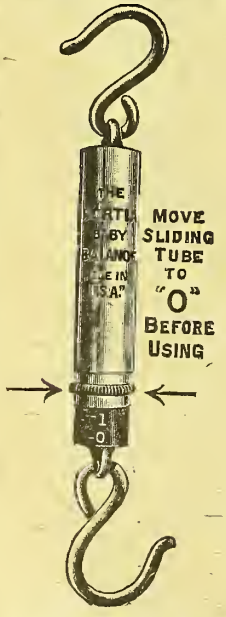
That there is a reason why!

Read our Booklet, "Hints on Keeping Ledger Accounts," sent **FREE** *on request.*

Complete Loose-Leaf Outfits from 9/6 to £6 6s.

Moore's Modern Methods, Ltd. (Room No. 7) **12 St. Bride Street, London, E.C. 4.**

Just Arrived.



A Limited Consignment of

THE

"PORTIA"

(*Regd.*)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
30/-	3/6
dozen.	each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

SOLPORT BROS., Ltd.

184 to 190 Goswell Rd., London, E.C.1.

Obtainable through all Wholesale Houses.

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net
*LOSALL'S SALT (well advertised), tins	9d.	6/6
* " " " " "	1/6	13/-
* " " " " bottles in cartons	2/-	16/-

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box for 8d.	2/-	18/-



ALLEN'S
THYMOL

FINE WHITE
CRYSTALS

BRITISH MADE.

ESTABLISHED 1833

STAFFORD ALLEN & SONS
LIMITED,

Manufacturing Chemists,

LONDON & LONG MELFORD

Regd. Offices: 7 COWPER STREET, FINSBURY, E.C. 2.

Telegrams:
"Persic, Finsquare, London."

Telephone:
London Wall 6556 (3 lines).

'KO-TAL-KO'

CERTAIN IN RESULTS
and
CERTAIN IN SALES

THE PUBLIC WANT IT

For strong advertising has taught them its merits, and practical experience has proven its claims. "KO-TAL-KO" is the strongest recommended hair preparation on the market, and this, in conjunction with my widespread publicity, is the best of all reasons why

YOU SHOULD STOCK IT.

Apart from quick and ready sales my trade prices allow of a fair profit to you. "KO-TAL-KO" is always on the move, never cumbers the shelves long, and is a business asset of the highest value for your repeat orders are always warranted.

IT PROFITS EVERYONE.

"KO-TAL-KO" does justice to me, to you and to the public, and every Chemist and Druggist should order a supply.

RETAIL PRICE P.A.T.A.
5/- Size
12/6 "

ORDERS AND DETAILS FROM
J. Hart Brittain
(Dept. C.D. 2), Ltd
2 PERCY ST., LONDON, W.1.

TRADE PRICE
48/- per doz.
112/6 "

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/- ...	1/- ...	7/6	per doz. less 5% discount.
1/6 ...	1/6 ...	9/-	
2/6 ...	2/6 ...	15/-	
3/6 ...	3/6 ...	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.1.

TOOGOOD'S TOILET CREAMS



Creme Altesia

A non-greasy Face Cream. Packed in 1-oz. Screw-capped Jars, each in Carton. 7/- per doz.



Altesia Skin Food

A greasy Skin Cream. Packed in 1½-oz. Flat Screw-capped Jars. 7/- per doz.

Manufactured only by
William Toogood, Ltd., 77 Southwark Street, London, S.E.1.

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniper Berry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC ALDEHYDE

GERANIOL

CITRAL

EUCALYPTOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition), Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

***AMERICAN AGENTS*—O. A. BROWN CO. INC., 99-101 Beekman St., New York.**
***CANADIAN AGENTS*—F. S. JARVIS & CO., 18 Toronto Street, Toronto.**

Gibbs's "Cold Cream" Shaving SOAP

NOW AVAILABLE.

In Nickel Sticks "De Luxe" — *Retail Price* **1/3**

Most Attractive Packing and good Showcards.

In Enamelled Metal Sticks (Green and Gold) — *Retail Price* **1/-**

In Enamelled Metal Sticks (Blue and Gold) — **7d.**

Well Advertised.

□□□

Good Profits.

D. & W. GIBBS, Ltd., City Soap Works, LONDON, E. 1.

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities — Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

TRUE VINOLIA BRITISH.
ALL ALIKE PERFECT

SUPPORT HOME INDUSTRIES

by displaying prominently in your Pharmacy the following two well-known British productions:

ROYAL VINOLIA SHAVING STICK

Retailing at 1/- each.

In Special Metal Cases, 1/3.

ROYAL VINOLIA TOOTH PASTE

In 7½d. and 1/3 tubes.



These lines are largely advertised, ready sellers and yield a handsome profit to the Pharmacist.



R V 189—29e

VINOLIA Co LTD
LONDON — PARIS.

IMPORTANT.

WILL Retail Chemists kindly note that ORISAL MOUTH WASH for PYORRHŒA is now prepared only in a highly concentrated form at **4/9** per bottle retail, the contents being four times the strength of those hitherto retailed at **2/9**.

WHOLESALE PRICES.

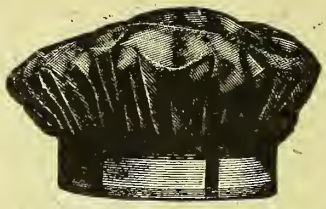
Mouth Wash (including Govt. duty, 12/-) **48**/- per doz.; Retail **4/9** per bot.

Dental Paste (including Govt. duty, 6/-) **23**/- per doz.; Retail **2/3** per tube.

Obtainable from the principal wholesale houses, or direct from

ORISAL LTD.

77 GEORGE STREET, PORTMAN SQ., W. 1.



AS MANUFACTURERS

we offer the latest patterns in solid rubber or proof, plain and fancy

BATHING CAPS

ALSO

SAFE FLOATS



And invite Inquiries. Samples on application.

F. SCHUTZE & CO., LTD.

Caledonian Market - LONDON, N.

'Ongard' Guarded Coil Safety Pins

REG'D TRADE MARK

RUST PROOF.

For Surgical & Nursery Purposes.

SOLE MANUFACTURERS

GEORGE GOODMAN LTD.,

BIRMINGHAM.

Stocked by JAMES L. HATRICK & CO., LTD., 70 St. John St., Clerkenwell Rd., LONDON, E.C. 1.

"Strodonia"

VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1¼ 2¾ dozen 7½d. selling for 11 3

4 " 1/- " " 9 0

For 10/- cash with order, carriage paid. 20 3

7½d. and 1/- - - - 5/6 and 9/- per dozen. From London Wholesalers.

Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists LOWER UNION ST., BRISTOL.

"Newberys"

FRANCIS NEWBERY & SONS LTD

"A1" SHAVING CREAM

UNDER ROYAL, NAVAL & MILITARY PATRONAGE.

This High-Class Shaving Cream will appeal to the élite of your Customers.

Add to your Stock a few A1 Shaving Cream, and be wise.

18/- per dozen.

CHARTERHOUSE SQUARE, LONDON, E.C. 1.

The Popularity of "Harlene Hair Drill."

EVERY DAY EMPHASISES THE NECESSITY FOR MEETING THE PUBLIC DEMAND.

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties and increasing expense, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.



NOTE—**The Contents of the Free HARLENE OUTFITS comprise:**

1. **A Trial Bottle of Harlene.**
2. **A "Cremex" Shampoo Powder.**
3. **A Trial Bottle of "Uzon" Brilliantine.**
4. **Book of Instructions.**

FOLLOW THE TIDE OF SUCCESS.
Watch the great Free Gift Advertising Campaign that brings the Customers to your Shop.

HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?

No Chemist or Store can afford to be without
: this unique line of Toilet Preparations :

"HARLENE" FOR THE HAIR — "ASTOL" FOR GREY HAIR
"UZON" BRILLIANTINE — "CREMEX" SHAMPOO POWDERS
"ASTINE" VANISHING CREAM — "ASTINE" SHAVING STICK
"ASTINOL" AROMATIC FLUID.

For Particulars, Advertising Literature, &c., write to

EDWARDS' HARLENE, Ltd., 20, 22, 24 and 26 LAMB'S CONDUIT STREET : : LONDON, W.C. 1.

JULES LANG & SON

WE HAVE LARGE STOCKS OF

French & Japanese TOOTH BRUSHES

Small stock of Military Hair Brushes.

Samples will be sent on application. Wholesale trade only supplied. NOT Retail.

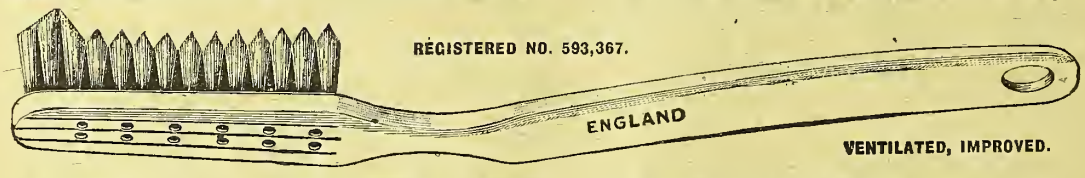
Charlton Works, Charlton Place - ISLINGTON, LONDON, N. 1.

Telegrams: "Assorted, Phone, London." Telephones: North 2770 (3 lines).

ROBERT ADDIS & SON, — Tooth Brush Manufacturers, — London Brush Works, London Fields, N.E.

The "ASEPTIC" or "PROPHYLACTIC."

When not in use, a Tooth Brush should not be allowed to remain wet, or it becomes offensive. The advantage of this Brush is—it can be hung up to drain, allowing the air to dry and purify it.



Best Quality	18/- per dozen.	Each in carton.
No. 1 ,, ...	13/6 ,,	,, ,,
Child's Size, Best Quality ...	10/- ,,	,, ,,

To be obtained from Wholesale Houses. Packed in cartons, facilitates sales and ensures brush reaching user in clean and antiseptic condition.

BIDWELLS' LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn, 18/-
Mitre - - - 14/-
Elephant - - 12/-
Anchor - - - 9/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We invite you to try them.
We guarantee satisfaction.

A selected £10 parcel of Hair Brushes from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

Hindes HAIR TINT

For GREY OR FADED HAIR.

Regd. Title - "SEEGEROL."

HINDES, Ltd., 1 Tabernacle St. City, London, E.C. 2

Patentees & Manufacturers of the World-famous Hindes' Wavers.

For Delicate Skins.

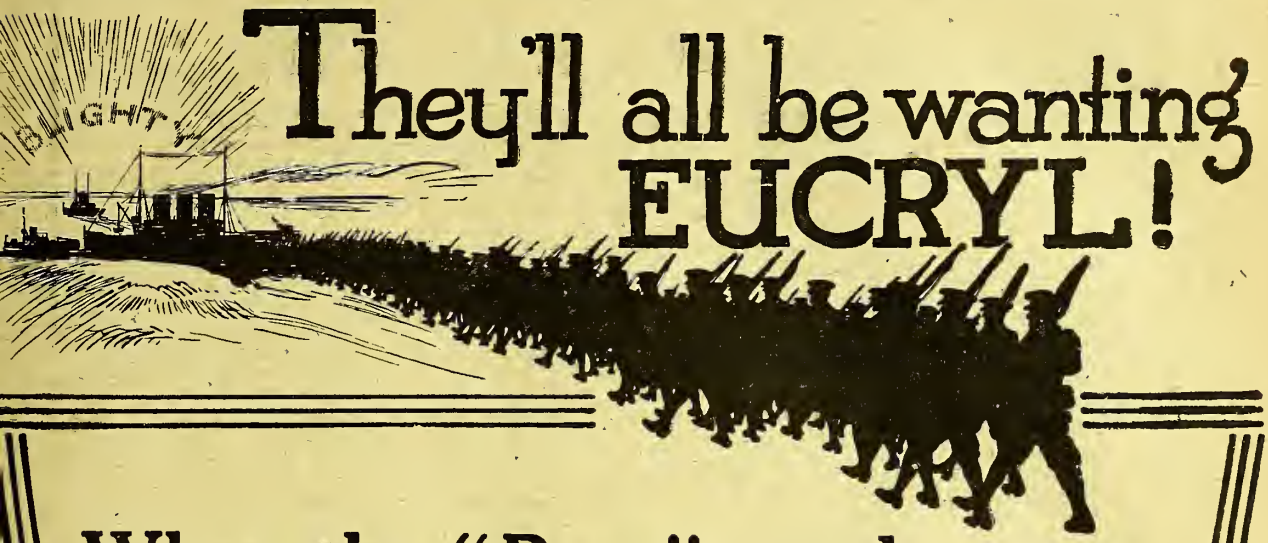
Eudermine Cream at 2/6 per bottle.

Eudermine Face Powder

at **2/6** per box.

Obtainable at all Chemists and Stores.

Manufacturers:
EUDERMINE CO. LTD., 79 Coleman Street, London, E.C. 2



They'll all be wanting EUCRYL!

When the "Boys"—and Girls—come Home

let them come to a "Blighty" that offers them the best of everything. Many things have been denied them in the four years of war, but now they must find everything to their hand for comfort and health. Eucryl Preparations are well within the means of everyone. They are not too high-priced as to jeopardise their selling powers. Yet with it all each article sold yields 100% Profit to the Chemist. Surely, it behoves him then, in his own interest, to "push" Eucryl all he knows how.

EUCRYL

TOILET PREPARATIONS

Send in your Season's Order Right Now.

TERMS.

doz. bonus given with each gross ordered of any or all the below. £5 parcels carriage paid, subject to 2½% cash with order.

LATEST PRICES.

1/-	Eucryl Tooth Paste,	**8/-**	doz.
7½d.	,, ,,	**5/-**	,,
1/2	,, Powder,	**9/4**	,,
7½d.	,, ,,	**5/-**	,,
2d.	Shampoo Powder,	**12/-**	gross.

EUCRYL, LTD.,

61-63 Lant St., SOUTHWARK, S.E. 1.

Telephones:
(Head Office),
AVENUE 1729 (3 lines).
(General Chemical Dept.),
AVENUE 6998 (2 lines).

CHAS. PAGE & CO., Ltd.,

Telegrams:
"PAGANINI
LONDON."

47/51 KING WILLIAM STREET, LONDON, E.C. 4.

SODIUM:

ACETATE, BISULPHITE,
CHLORATE, FLUORIDE,
FORMIATE, HYPOSULPHITE,
NITRITE, PHOSPHATE, PRUSSIATE,
SALICYLATE, SULPHIDE,
SULPHITE, TANNATE.

LITHOPONE.
NITRO BENZOL.
NAPHTHALINE (Flake, Nitro, Marbles).
ANILINE SALT.

LEAD:

ACETATE, ARSENATE,
NITRATE, RESINATE.

POTASH:

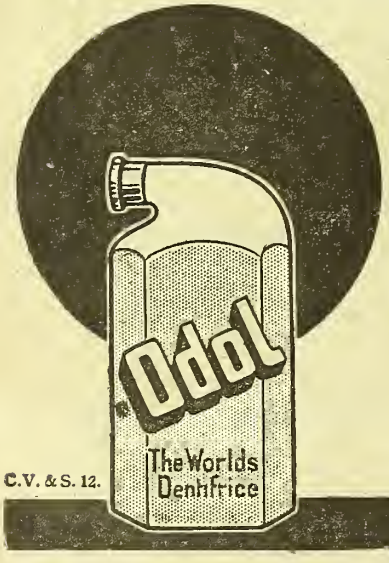
CHLORIDE, CHLORATE,
CARBONATE, PERMANGANATE,
PRUSSIATE (Yellow & Red).

ZINC:

CHLORIDE, SULPHATE,
OXIDE, CARBONATE.

PRECIPITATED CHALK.
GUIGNET'S GREEN.
ANILINE COLOURS.
COALTAR INTERMEDIATES

BRITISH ODOL



C.V. & S. 12.

Send for Price List and Trading Terms.

Revised Retail Prices.
Grand Double Flask 5/3
Full-size Bottle 3/-
Half-size Bottle 1/9

ODOL
Chemical Works,
BERKHAMSTED.

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

	per doz.
D.D.D. Prescription 2/9 bottle, M.R.P. Face Value, @	25/6
,, ,, 5/- ,, ,, ,, ,,	47/-

In two strengths—Ordinary and Strong.

	per doz.
D.D.D. Soap ... ... 1/- tab. M.R.P. Face Value, @	8/3
,, Shaving Soap ... 1/6 stick ,, ,, ,,	13/6
,, Vanishing Cream 2/6 jar ,, ,, ,,	22/6
,, Shampoo Powders 2/6 box ,, ,, ,,	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.
3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C.4

LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.
LONDON AGENTS:
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.



CHAPOTEAUT'S CAPSULES of
PHOSPHOGLYCERATE of LIME.
THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.
Sold by all Chemists.
Wholesale: 8, Rue Vivienne, PARIS.

MORRHUOL CHAPOTEAUT



CAPSULES
MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.
It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.
SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS
(Gouttes des Colonies)
A harmless antiseptic preventative against CHOLERA· FERMENTATION· INDIGESTION & other intestinal disturbances.
SOLD BY ALL CHEMISTS



LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.

THE "EMPIRE"

HENNA SHAMPOOS



The box of 7.

are made with a Potash Soap base, therefore the hair is left very soft and wavy. The perfume is so delightful that repeat business is assured.

Prices : Loose, 15/- per gross packets.
Box of 6, 10/6 per doz.

Special Quotation to the Wholesale and Export trade.



The Sales-Compelling Showcard.

THE EMPIRE PERFUMERY CO.,

CUXSON, GERRARD & CO., Ltd., Proprietors,
Oldbury, England.

TO CREATE TRADE

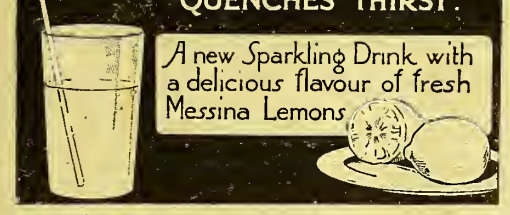
stock lines that recommend themselves.

Trade Mark

Quencholeen LEMONADE

QUENCHES THIRST.

A new Sparkling Drink with a delicious flavour of fresh Messina Lemons



Quencholeen requires no sugar.
Quencholeen will bring you customers and add to your reputation.
Quencholeen pleases everybody and retails at **1½d.** per pkt., or in cartons of **13** pkts. for **1/6.**

Trade Terms.

13/- per doz. cartons, **5** doz. lots, **12/-** per doz. net, together with showcards and windows bills complete, ca h with order. Carriage Paid.

The Violiv Manufacturing Co.,
26 Haymarket Terrace, Edinburgh.

THE name Zenobia is so intimately associated with perfection in perfumery, that the buying public eagerly welcome the Toilet Preparations also manufactured by the firm of Zenobia, Ltd. Chemists will find that the name

ZENOBIA

alone is sufficient to ensure ready sales, while the pleasure found in the use of Zenobia Specialities in its turn ensures satisfied customers. We particularly recommend

ZENOBIA BRILLANTINES.	ZENOBIA TOILET POWDERS
-/8d. size.....6/- per doz.	1/3 size.....10/6 per doz.
1/4 „ ... 12/- „ „	2/9 „ .....24/- „ „
2/2 „ ... 19/6 „ „	-/7½d. Poudre Orientale. 5/6 per doz.

Subject to usual discount.

A complete Catalogue will be forwarded on application to—

ZENOBIA LTD., Loughborough, ENGLAND

"Jackel's Cream"

(without Grease)
for THE HAIR
Sold everywhere

Established 1883.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

CRYSTALLISED
1/6 CREAM **2/6**
Trade Mark attached to each bottle.

Jackel et Cie (of Paris) Ltd.
Sauchiehall Street
GLASGOW

Manicure your Finger Nails with "RediO"

TRADE MARK

Finger Nail Cloths.

They give a brilliant, lasting polish without pumice, dust, or grease. Beautiful finger nails give the finishing touch to a cultured hand.



Of all Chemists, Hairdressers, etc.

Prices:
6d. and **1/-**



The REDIO CO. specialises in impregnated cloths.

Try the celebrated Redio *Metal* Polishing Cloths.

REDIO CO., Ltd., 66 Fore St., London. E.C. 2.

CROSFIELDS'
CHEMICALLY PURE GLYCERINE.
PYRAMID BRAND.

JOSEPH CROSFIELD & SONS LTD
CHEM. PURE GLYCERINE
Sp. Gr. 1·260
PYRAMID BRAND
TRADE MARK REGD
WARRINGTON, ENGLAND

The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14lb. 28lb. & 56lb. TINS. (WOODEN CASES)
1, 2½, 5 & 10 CWT. DRUMS. (RETURNABLE)

JOSEPH CROSFIELD & SONS LTD Chemical Manufrs. WARRINGTON.

IMMEDIATE DELIVERY

GATES' BOTTLE CAPPING SKINS



ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."



Sole Pioneer and Only English Manufacturer :

LESLIE GATES
HAILSHAM, SUSSEX.

Another New Speciality.—Try my
TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmansh p and prompt delivery. Ingredients supplied if desired at lowest market prices, Write, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, **London, E.C.1.**

All Chemists and Stores adjacent to **Theatres** and **Music Halls** should stock the famous

LEROZA Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading Artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/6 per tin box (about ¼ lb. costs 13/3 per dozen carriage paid. **Cash with order.**

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD,
THE LEROZA THEATRICAL STORES, 75 Cambridge Street, Glasgow.

SEMREH

Make a NOTE of the NAME when ordering bottle cappings.

SEMREH
BOTTLE CAPS
are
SELF - FIXING

Details from
THE VISCOSE Development Co., Limited, BROMLEY, KENT.

THE REASON WHY

Essential Oils
Aromatic Chemicals
Flower Oils

YOU ARE SEARCHING IS THAT
YOU ARE NOT SATISFIED

YOU ARE NOT SATISFIED BECAUSE
OTHERS ARE GETTING BETTER RESULTS

OTHERS ARE GETTING BETTER RESULTS
BECAUSE THEY USE P. & S. PRODUCTS

P. & S. PRODUCTS ARE USED BECAUSE
BUYERS ARE BENEFITING BY THEM

THEY ARE BENEFITING BY THEM
BECAUSE THEY EARN MONEY

THEY EARN MONEY BECAUSE
THEY ARE USING THE PRODUCTS OF

POLAK & SCHWARZ, LTD.

ZAANDAM
HOLLAND

BOIS-COLOMBES
FRANCE

EST. 1889.

Manufacturers of Perfumes & Toilet Specialties

are respectfully invited to send samples and write to us in regard to representation for the sale of their products in Japan, where we have specialised in these lines for the last forty-nine years.

The demand in Japan for these goods has increased enormously of late, and the tendency is for a still greater increase.

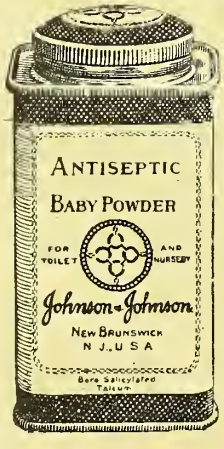
We do not hold agencies merely to pass on orders should they happen to come in ; we PUSH sales by means of vigorous and extensive advertising.

OSAKIGUMI SHOKAI,

AZUCHIMACHI, 4 CHOME, OSAKA, JAPAN.

Branches in Tokio and other important cities.

N.B.—We have an experienced European in charge of our Foreign Department.



Look for the Name and Trade Mark.

ANTISEPTIC BABY POWDER

MANUFACTURED BY

Johnson & Johnson.

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

WARNING.

The contents cannot be imitated, and the Trade Mark cannot be imitated ; and we would ask those Customers who have handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

JOHN TIMPSON & CO., Ltd.,
104 Golden Lane,
LONDON, E.C.

Your Outlay : £2 0 0

Your Returns : 5 14 0

Your Clear Profit 3 14 0

We will send you 1 Gr. 9½d.

"Magnetum" Infallible Corn Cure

Carriage Paid, Cash with Order, with special Display Cards, Sells Freely, a really effective Corn Cure as follows—

1 Gr. 9½d. "Magnetum" Corn Cure at 60/- Gr.	-	£3 0 0
Less Discount and Window Display Allowance	-	1 0 0
Send your Cheque now for		£2 0 0

SOLE PROPRIETORS AND MAKERS—

NI-VERRE CHEMICAL CO., 5-7 Ormeau Avenue, BELFAST.

WE ADVISE YOU

TO STOCK OUR

"MOOVIT" CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/-

which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,

20 HIGHGATE ROAD, LONDON, N.W. 5

SALES BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME BRICK

FOR LINEN CUPBOARD AND WARDROBE.

Retail Price, ***6d.***

Of the Makers:

ALBERT WILLIS & ARTHUR, Ltd.

6 Mortimer St., London, W.

AND ALL WHOLESALERS.

Rapid Sales — Good Profit

— put in your stock of G.O. Lemonade, now! There will be a demand right through the summer months. Those who sell it know that it literally creates trade.

G.O. LEMONADE

makes a delightful beverage by simply dissolving in cold water. NO SUGAR REQUIRED.

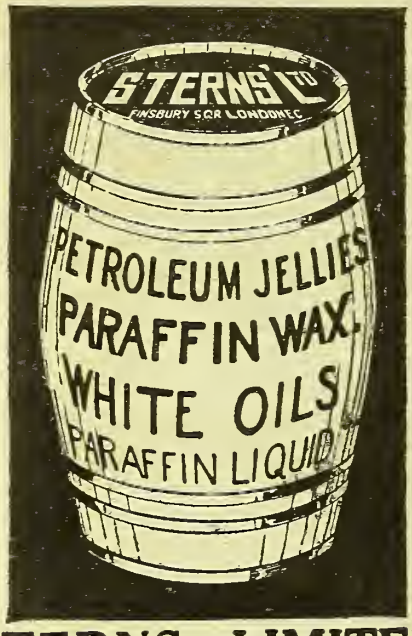
RETAILS at 2d., 3½d., and 6½d. per packet.
(P.A.T.A. Face Value)

G.O. Lemonade is packed in attractive Show Outers. Smart Showcards are sent with all orders.
WRITE FOR FREE SAMPLE.

SPECIAL OFFER FOR C.W.O.

2 gross 2d. @ 17/6 per gross	£1 15 0
6 dozen 3½d. @ 30/-	0 15 0
(1 dozen 6½d. Free in payment for display)	£2 10 0

The GREENWICH LEMONADE CO.
(J. Milner, M.P.S., Proprietor)
209 Trafalgar Road, GREENWICH, S.E. 10.



STERNS LIMITED
A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone: 3797 London Wall. (Four Lines.)
Telegrams: "Centumvir, Phone, London." (Two Words only.)

FLINTEX DRY DISTEMPER.

A high-class sanitary water paint made in fourteen beautiful shades and only requires addition of cold water.

Easily applied by amateurs, dries hard in a few hours and will not rub off.

	3-lb. pkts.		6-lb. pkts.
Blues and Greens,	1/9	–	3/3
Wholesale - - -	15/-	–	29/- per dozen.
All other shades -	1/6	–	2/10
Wholesale - - -	13/-	–	25/ per dozen.

Less 5% for cash with order £3 orders Carriage Paid. Shade Card on application.

TEXALO MANUFACTURING CO.
SOUTH SHORE, BLACKPOOL, LANCS.

Manufacturers of
STIFF AND READY MIXED PAINTS, VARNISHES, WATER PAINTS, DISTEMPERS, STAINS, POLISHES, DYES, HOUSEHOLD AND DOMESTIC PREPARATIONS.

WRITE FOR COMPLETE PRICE LIST

℞ The TWO ESSENTIALS

REQUIRED BY UP-TO-DATE OPTICIANS ARE

ACCURACY
AND
PROMPT RETURN

YOU MAY DEPEND ON HAVING AN ENTIRELY SATISFACTORY Rx SERVICE FROM US. WE SOLICIT A TRIAL, AND FEEL CONFIDENT THAT IT WILL LEAD TO EXTREMELY PLEASING RESULTS.

ELLIOTT OPTICAL CO.
104/5 Gt. Saffron Hill,
LONDON, E.C. 1

STOVAINE

THE LEAST TOXIC OF LOCAL ANÆSTHETICS

USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

LES ETABLISSEMENTS POULENC FRÈRES

92, RUE VIEILLE DU TEMPLE, PARIS.

BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE, AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.

Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

PIPERAZINE CITRATE IS MADE ONLY BY ALFRED BISHOP, LTD.

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

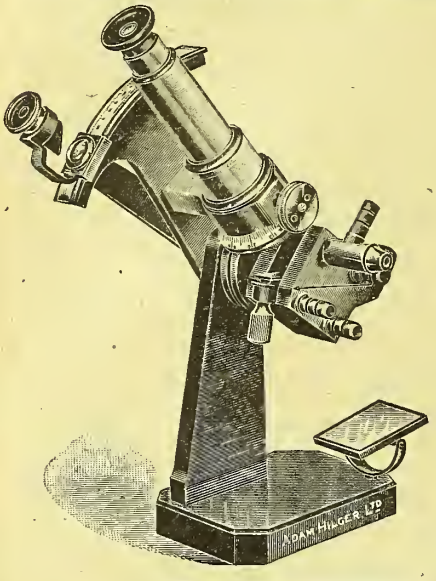
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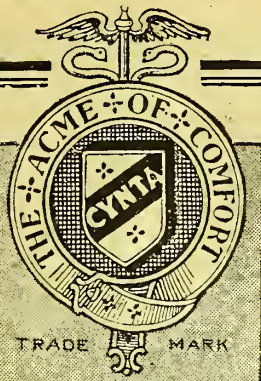
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Coming Events.

Tuesday, April 29.

Faraday and Röntgen Societies, Burlington House, Piccadilly, London, W., at 5 P.M. to 7 P.M. and 8.30 P.M. to 10 P.M. General Discussion on "The Examination of Materials by *X*-Rays."

Wednesday, April 30.

London (Western) Pharmacists' Association, Pinoli's Restaurant, London, W., at 7.30 P.M. Whist-drive and supper. Tickets (6*s*. each) from Mr. B. R. Wilkinson, 23 Cromwell Place, London, S.W. 7.

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 2.30 P.M. General meeting of Scottish pharmacists (including assistants and apprentices) to consider the question of organisation.

National Association of Women Pharmacists (Manchester and Liverpool Group), 39 Cheetham Place, Hill Road, Manchester, at 7.30 P.M. Meeting.

Thursday, May 1.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Lecture by Professor J. H. Jeans on "The quantum theory of light."

Local Federation (London Branch), Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 3.30 P.M. Special meeting on "National Industrial Council."

Friday, May 2.

Royal Institution of Great Britain, Albemarle Street, London, W., at 5.30 P.M. Professor J. W. Nicholson, F.R.S., on "Energy Distribution in Spectra."

Local Federation (London Branch).—A dinner will be held at the Connaught Rooms on May 8, at 6.30 P.M. Tickets (10*s*. 6*d*. each) from Mr. G. W. Evans, 239 Hammersmith Road, London, W. 6.

Experiences of the Great War.

Contributions to this section are invited.

VII.—A Prisoner of War.

On March 9, 1918, I was detailed with two men, to take charge of the 50th Brigade's dump in the support line between the Somme villages of Hemies and Havrincourt, Cambrai sector. This dump was situated close by a light railway, some distance from the left bank of the Canal du Nord, the bed of which is dry in this neighbourhood, whilst we occupied a sap, or dug-out, on the right bank, our "bedroom" being separated only by a curtain from another sap in which there was a sergeant of the Dorsetshire Regiment with three men in charge of the brigade's ammunition and bomb dumps. We had quite a decent time until March 21. A few shells came over occasionally but nothing much to worry about. The trouble, as everyone knows, began about 3 A.M. on the above-mentioned date. Until midday the ground trembled and shook with the concussion of the bombardment, and for over two hours we sat, down that sap, with our box respirators on. We were nearly a mile away from the German front line, but had to wait, until things had quieted down a little, before we could commence frying bacon, boiling water for tea, etc., after clearing the $COCl_2$ out by creating a thorough draught with the fires, flappers, etc. Proceedings were more or less "lively" all day, and the man who should have gone for our rations in the evening, being a married man with children, was so nervous on the subject that I, perhaps rather foolishly, allowed him to wait until the following morning when he set out about 9 A.M. accompanied by the second man whose turn it was to take the daily report to brigade headquarters. In the meantime, we had run short of water, so with "tin hat," box respirator and two petrol tins, I went to fetch some. (The water-point was five or six hundred yards away, almost in the front line, and, to get to the pumping apparatus, one had to descend ladders to a depth of 100 ft.). It was now 9.30 A.M. and there was a thick mist. The district seemed strangely quiet, and, whilst I was still wondering at this, I ran smack into a German patrol. The entire division (the 17th) had evacuated the front line and support trenches during the night without giving warning to people in charge of dumps, etc. Several others met the same fate as I did, and there is reason to believe that a number more were killed by bombs thrown down dug-outs. I was taken back to where an entire company was waiting in reserve behind a mound. There, after being interrogated (fortunately I had no information to give even had I desired to do so), I was allowed to rest, and was not unkindly treated, my captors being in high spirits. The sun soon dispersed the mist (in fact the day became quite hot), whereupon 60-lb. high-explosive "presents" from long range began to arrive, each with a scream and a crash! Had the British gunners planted one or two about thirty yards to the left of where the shells were falling they would have bagged one company of the 243rd German infantry regiment, and me! After a while we moved back into the old British front line, then I was sent to battalion headquarters further back still, and finally, with other prisoners, to an open "cage" at St. Olle, a suburb of Cambrai, where we spent the night. On the following morning we were marched to another cage at Thunheveque, some distance on the other side of Cambrai. In this cage there was a fair-sized shed or shelter constructed by the French under compulsion. As, however, there were soon over 2,000 N.C.O.'s and men "for it," no one was able to lie down but all had to stand packed like sardines until the morning. The crush was terrible, and, finally, one end of the shed gave way under the pressure. Officers had a smaller separate shed. What sleep there was, had to be snatched during the day, but even then there was not much chance, as no sooner was one "meal" (such as they were) finished than one had to line up for the next if starvation were to be avoided, so inadequate were the feeding arrangements. After about a week of this we had another move, of 15 kilometres, to Denain. Here we could at least sleep as we were billeted in houses and allowed to make wood fires, and, although the rations were actually less than at Thunheveque, they were issued differently, with the result that we got a little more satisfaction out of them. Large batches of prisoners were dispatched from Denain to the prison camps in Germany. Two thousand had gone the day before we arrived, and fifteen hundred more were picked out three days later. I had a stroke of rather rough luck in not being with the latter, and was instead one of a small party (seventy) sent some 20 kilometres to work at Orchies, a fair-sized town. We were naturally all about "Kaput," as "Jerry" would put it, when we arrived there and were allowed a day's

rest. Our "lager" was an old chicory factory. There were two other parties of Englishmen and a considerable number of Russians. In all about 500 prisoners were housed there. The daily routine of our particular party was as follows:

6 A.M. *Reveille*, a wash under the pump if possible (there was only one pump for all the parties, and to "put the lid on it" that often went on strike), and coffee (substitute, said to be made from burnt acorns, nothing to eat with it).

7.30 A.M. Parade, roll-call, and set off for work.

8-11 A.M. Work. This was at a railway siding, and consisted largely of loading and unloading trucks. It would not have been out of the way for a man in normal health, but, under the circumstances, we soon began to "crack." Any attempt to take it easy aroused the wrath of the N.C.O.s in charge.

11.30 A.M. (about). Arrive back for dinner. This was soup, a litre per man. Unfortunately, four days out of the week, this was "sauerkraut" which soon began to upset digestions.

1.30 P.M. Parade, etc.

2.5 P.M. Work.

5.30 P.M. Back for "tea." For this we had "sandstorm" (a very thin gruel made of maize meal), one loaf between three men (these loaves weighed fourteen hundred grammes each), and "extras." The "sandstorm" was so salty that men were obliged to quench their thirst with water from the pump, a habit which, sooner or later, caused dysentery. This disease, once contracted, was not helped by the bread which consisted partly of wood flour (I understand that this is made by chemically treating pine wood), nor by the jam which was the usual "extra," and was often fermenting.

7.30 P.M. Roll-call.

9 P.M. Lights out.

Yes, "lights out," but no sleep. Orchies was the most horribly verminous place it has ever been my misfortune to see. Lice swarmed and dropped from the roof on to one. They were "supported," as one might say, by fleas and rats. We had no blankets, which was perhaps just as well under the circumstances! During the day millions of flies pestered us. The effects of this "programme" can readily be imagined. The last news I heard of our party was that 23 were left out of the original 70. I was fortunate enough to collapse fairly soon and was removed on May 13 to the Prisoners of War Hospital at Tournai, where I spent rather more than ten weeks. Whilst there I noted that the enemy's medical equipment consisted almost entirely of aspirin and tincture of iodine. I had one dose of pyramidon, for a high temperature, one day. Bandages were made of paper. From Tournai a small party of us were sent "convalescent" to the notorious Fort Macdonald, "the black hole of Lille." Fortunately this had improved a little since the time in April when so many of our people had an awful experience there. Although we were only allowed one hour's exercise a day, we at least had a daily wash, we were only a few in a cell (as against the 350 of April), each had a blanket, and tea substitute (sweetened) was supplied instead of the "sandstorm" of Orchies at night. The cells were swept out every morning and thoroughly washed once a week. I had three good baths and fumigations during my first three weeks there, and we were given facilities for washing our underclothing. The rations, however, were so meagre that our ribs soon became alarmingly visible and it was no uncommon thing for men to faint. At the beginning of October, Lille was so seriously threatened by the allied advance that it was decided to send the prisoners-of-war to Germany. Accordingly we were sent from Fort Macdonald to join "E.K. xviii." in the old *gendarmerie* in the city itself, and a few days later the whole lot set out, at 3 A.M. one morning, to march to the fatherland, pushing our few belongings and the guards' rations, cookers, and the furniture and fittings of the *gendarmerie*, on wagons. Our first stop was at Tournai, the second at Ath, and the third at Hoves near Enghien, about 30 kilometres from Brussels. We rested for about a week at Tournai. At Hoves I had a second stroke of luck. Exposure and eating raw turnips brought on acute diarrhœa and, after treatment for a few days, fourteen of us were taken in a cart to Enghien and by train from there to Halle, near Brussels. Two days at a German casualty clearing station and three more at a very decent hospital, where we received kind treatment at the hands of a very pro-British doctor, saw considerable improvement in most of us, and we were judged well enough to proceed to Germany. A wearying five days' railway journey found us at Stargard in Pomerania, from whence, after further treatment, we were moved to Altdamm. Here my captivity ended almost as suddenly as it had begun. On November 25 I was picked as one of the first batch for repatriation. Leaving Altdamm station the following day, 300 of us arrived at Sassnity, Rügen Island, about 6 A.M. on November 27, the entire train being ferried over from the mainland at Stralsund. We embarked at once on the s.s. *King Haakon*, which by midday brought us to Copenhagen. There we changed to the s.s. *J.C. la Cour*. The latter vessel made a splendid passage and reaching Leith safely on November 30, we were accorded a magnificent reception. Later we were dispatched to Ripon whence, two days afterwards, I arrived home on two months' leave!

Lance-Corporal J. R. Bentley, late "D" Coy., 7th Battn. East Yorks Regt.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Regulations Altered.

Since the last list was published (*C. & D.*, April 19, p. 47), the following alterations have been made in Regulations or Orders under the Defence of the Realm Act:

Cereals.—The Royal Commission on Wheat Supplies have suspended the restrictions dated December 12, 1918, so far as they relate to the following cereals—viz., barley and rye, and to flours and meals made from barley and rye, and to rice and pulses. The restrictions referred to provided that all imports of a quantity of five tons and upwards of cereals, cereal flours and meals, rice and pulses should be notified to the Royal Commission on Wheat Supplies, either on or before arrival, by the original consignee as declared on the bill of lading; and that such imports should only be dealt with in such manner as the Royal Commission on Wheat Supplies might direct.

Gas Carbon (*C. & D. Diary*, p. 70).—The Gas Works Retort Carbon, etc., Control Order, 1918, has been suspended. This Order controlled dealings in gasworks retort carbon, etc.

Sodium Nitrate (*C. & D. Diary*, p. 75).—The control of sodium nitrate will be suspended from May 15.

Import Restrictions.

The President of the Board of Trade, after duly considering the recommendations of the Consultative Council on Imports, has given the following further directions in regard to the prohibitions of imports: The importation of zinc oxide is to be restricted to 10 per cent. of 1913 imports. The importation of lithopone is to be allowed to continue without restriction. Application for special licences should be made as usual to the Department of Import Restriction, 22 Carlisle Place, S.W. 1.

Guardians' Affairs.

Birkenhead Board of Guardians has accepted the tender of Evans Sons Lescher & Webb, Ltd., for drugs and sundries.

The appointment of Miss L. A. Scurr as dispenser to the Sculcoates Guardians at relief stations has been sanctioned by the Local Government Board.

Birmingham.

The outbreak of rabies has stimulated the sale of caustic points.

Complaint is being made at the somewhat high-handed methods of railway companies in the acceptance of bulky or otherwise unusual parcels.

A pleasant gathering took place in Birmingham on April 16, the occasion being the decision to make a slight acknowledgment to Mr. Elliott, who gave a series of free lectures on bacteriology last winter. After dinner, Mr. Maurice Smith, who organised the meeting, asked Mr. Elliott if he would accept two scientific books and a silver-mounted umbrella as a small token of the indebtedness of those present and of some absent subscribers. Mr. Elliott, in reply, thanked the company and stated that he had enjoyed giving the lectures, and, in fact, by reason of the keenness of some of the students' questions, had also benefited. Mr. H. O. Lloyd, President of the Birmingham Pharmaceutical Association, joined in expressing his appreciation of what Mr. Elliott had done, and raised the question of the education of the future pharmacist, with special reference to returned soldiers and others.

Liverpool.

Complaint is rife that small bottles with reliable stoppers are almost unobtainable.

Spurious half-crowns are in circulation here. They are badly milled, and the profile of his Majesty is more or less rough.

Mr. H. Humphreys Jones has secured new class-rooms and laboratories at 2 Blackburne Place, Hope Street, for his School of Pharmacy, which has outgrown its present accommodation.

"How did you spend your Good Friday and Easter Monday?" was the question on Tuesday to a chemist's assistant. "In bed, overtaking my arrears of rest," was the reply.

Mr. William Parry, whose illness was referred to in this column last week, is able to get about again. He was met with the *C. & D.* in his hand the other day, and remarked that he had been a subscriber for over forty years.

Perfumes and other articles of fancy stock have run out during Easter, delay having occurred in the execution of orders. The season's business proved a record in the central area. A few pharmacies near the Exchange remained closed from April 17 to April 22.

Among the successful candidates at the recent quarterly examinations of the Royal Colleges of Physicians and Surgeons of England were Mr. K. S. Dickinson, Ph.C. (Principal of the Chester and North Wales College of Pharmacy), who passed the first examination in biology, and Mr. G. V. C. Last, Ph.C., who passed the final examination in midwifery.

At Liverpool Police Court, on April 21, Jose Maria De Pirredo, ship's doctor, and Francis Copeland Dawson, hospital attendant, were remanded on a charge of the manslaughter of J. W. Eastwood, a ship's boy, on board the steamer *Darro*, while on the high seas. It was stated that on February 10 a fireman who was ill went to the doctor for treatment, and was given a dose of medicine which proved to be carbolic acid. The fireman, however, recovered. Eastwood, who was suffering from the same complaint, was subsequently given a dose of crude carbolic acid, and died. On the steamer reaching port an inquiry was instituted by the Board of Trade officials, and the matter was taken up by the Public Prosecutor.

Sheffield.

Mr. H. Antcliffe and Mr. E. Preston, Ph.C., have been in London this week as delegates to the British Pharmaceutical Conference.

While Mr. Deakin did not open up much fresh matter at the meeting reported on p. 74, it was an intellectual treat to follow his practised diction.

Mr. A. H. Culverhouse is to represent the Sheffield Pharmaceutical and Chemical Society at the forthcoming Town Hall meeting in connection with the venereal diseases campaign (*C. & D.*, April 12, p. 46).

A glass research association is being formed with a view of placing on a sound commercial basis the research work done in laboratory glassware at Sheffield University during the war. The Government are being asked to provide 75,000*l.* over a period of five years, and the manufacturers are expected to contribute another 25,000*l.* The Controller of the Glass Ware Department of the Ministry of Munitions has called a meeting to discuss the scheme. Substantial promises have been received from manufacturers interested, and a provisional committee has been appointed.

Miscellaneous.

Wine-licence Refused.—At the Ruabon Petty Sessions recently, Mr. G. R. Knox Mawer, chemist and druggist (L. Rowland & Co., 9 High Street, Wrexham), was refused a wine-licence.

Early-closing Recommendations. — The Huddersfield Chamber of Trade are recommending a forty-eight hours' week for shopkeepers, and also purpose taking a postcard vote on the question of closing at noon on Wednesdays.

Poison-licence Applications.—J. R. Ellis, 25 High Street, Strood, has applied to the Rochester City Council for a licence to sell agricultural poisons.—H. J. E. Batchelor, Cranworth Road Corner, Winchester, has similarly applied to the Winchester City Council.

Sale of Food and Drugs Acts.—At Hull, recently, Charles Kellington, described as a druggist, was fined 2*l.* 2*s.*, with costs, for selling paregoric deficient in alcohol to the extent of 12.8 per cent., and practically void of opium derivatives. It was stated in evidence for the prosecution that, on being told that the paregoric would be analysed, the defendant said it was a substitute.

Enemy Patents.—Applications for grant of licences to use enemy patents have been made by the Morton Sundour Fabrics, Ltd. (2373/09 and 29138/09, anthracene derivatives); Humphreys & Glasgow, Ltd. (the Messerschmitt hydrogen patents); Guest & Chrimes, Ltd. (Heylandt's liquid-gas vessel); and the British Association of Glass Bottle Manufacturers, Ltd. (bottle-making machines). The hearings took place on April 23 and 24.

London Strike.—On April 22 the employés of Evans Sons Lescher & Webb, Ltd., Bartholomew Close, London, E.C., came out on strike. The cause of the disagreement was a notice which had been posted up for some three weeks stating that workers who came late would lose the day's work. It has now been arranged that late comers will have an opportunity of explaining the cause of their want of punctuality, and the employés have returned to work.

In the Courts.—At Huddersfield, on April 16, Needhams, Ltd., chemists, 36 Buxton Road, were summoned for having an unjust beam scale in their possession for use in trade. The evidence showed that a weight had been left on the beam of the scale, but no suggestion of fraud was made. The case was dismissed on payment of costs.—At the Thames Police Court, London, on April 23, a Chinaman was placed on probation for being in possession of opium and opium-smoking utensils.

Festivities.—Stafford Allen & Sons, Ltd., gave a dinner on April 14 at Anderton's Hotel, Fleet Street, E.C., to their London employés. The gathering numbered about 175. The chairman of the company, Mr. T. E. Goodyear, presided, and was supported by the managing directors, Mr. E. Watlock Allen, Mr. G. Stafford Allen, and Mr. Kenneth C. Allen. The after-dinner programme included musical, conjuring, and other items, and the occasion was felt to be a successful one from all points of view.

Poisoning.—At Hampstead, on April 23, an inquest was held on the body of an infant named Bone. Evidence showed that the child was a patient in a nursing home, and was being treated by a specialist. The medicine, in which there was strychnine, was dispensed by a chemist. The child was seized with convulsions, and the proprietress of the Home discovered that more than should have been administered was missing from the medicine bottle. The jury returned a verdict of "Death by misadventure," adding that there was no evidence to show who administered the overdose of medicine.

Municipal Prizes in Pharmacy.—At Blackpool Technical School, on April 15, Dr. A. E. Ikin, B.Sc., presented the prizes awarded to the successful students in the pharmacy course which has been held at the school during the winter. The attendance included members of the Blackpool and Fylde Pharmacists' Association, which has given the classes every encouragement and has also provided the prizes. Dr. Ikin said that this was one of the first courses he recommended after he became Director of Education for Blackpool. Mr. G. A. Clarke, chemist and druggist, Whitegate Drive, was the teacher of the class.

Munition Works Explosion.—The report of Major Coningham, Inspector of Explosives, on an explosion at Rainham (Essex) Chemical Works in September, 1916, has been published this week. The chief chemist of the factory and six other men were killed, and sixty-nine injured by the explosion. The explosion was the result of a fire, and Major Coningham finds that the only conclusion he can arrive at is that the fire was caused by a workman named Warman smoking in the nitrate of soda drying room. He pays a high tribute to Captain Church, the general manager, who undoubtedly by his energy and bravery saved a large number of lives.

Royal Botanic Society.—The President of the Board of Agriculture and Fisheries has appointed a Committee to inquire and report what steps should be taken to render the work of the Royal Botanic Society of London as useful as possible from the scientific and educational point of view. The Committee consists of the following: Sir David Prain, Director of the Royal Botanic Gardens, Kew (Chairman); Sir William Henry Dunn, Surgeon-General Sir Alfred Keogh, Sir Malcolm Morris, Major Robert Cattley Carr, Mr. Morton Evans, Joint Secretary of the Office of Woods, Mr. Hubert John Greenwood, and Professor Frederick W. Keeble (Board of Agriculture and Royal Horticultural Society).

Offences against the Person Act.—At Westminster Police Court, London, on April 16, Joseph Humbert Ferrua, described as an Italian doctor, who had already been committed for trial on a charge of murder by illegal operation (*C. & D.*, March 8, p. 48), was further charged with administering noxious drugs to two other women. Fees of 15*l.* and 5*l.* respectively were said to have been paid, and one of the women stated in evidence that certain drugs prescribed by the prisoner were compounded and expensively charged for at a French pharmacy. Dr. R. C. Jewesbury gave evidence as to the nature of the drugs employed, some of which, he stated, are not in the British Pharmacopœia. Ferrua was committed for trial on the fresh charges.

Irish News.

Brevities.

Miss Hoey has been engaged as compounder by the Dundalk Guardians for a further period of three months.

Mr. R. F. McCartney, Ph.C., chairman of the Coleraine Urban District Council, has been appointed a member of the Coleraine Harbour Board, in succession to the late Sir W. Baxter, D.L. (ex-President of the Pharmaceutical Society of Ireland).

Belfast.

The Enfield Drug Hall, carried on by the late Mr. W. Corbet, R.D., 113 Crumlin Road, Belfast, is for sale.

It is stated that Grattan & Co., Ltd., Cornmarket, Belfast, intend fitting their shop with modern windows.

Fire broke out on April 15 in the pharmacy of Mr. W. R. Bruce, Ph.C., 27 Falls Road, Belfast. The shop was completely destroyed. The loss is covered by insurance.

Mr. H. E. McIlroy, R.D., has taken over the drug business of Mr. S. Carson, R.D., 117 York Street, Belfast. Mr. McIlroy was principal assistant with Mr. James Browne, 381 Woodstock Road, Belfast.

At Belfast Recorder's Court on April 17, the claim of William Dobbin & Co., Ltd., wholesale druggists, 45 and 47 North Street, for damage to plate glass and lettering during the recent strike in the city was disposed of. The sum of 13*l.* was awarded, to be levied from the rates. In the claim of Mr. J. H. Bingham, Ph.C., for damage to glass and lettering at his pharmacy, 43 Donegall Place, the sum of 11*l.* 12*s.* 6*d.* was awarded (*C. & D.*, April 12, p. 47).

Dental Society's New President.

Mr. F. T. Smith, J.P., R.D., Antrim, who vacated the presidential chair of the Ulster Retail Drug-trade Association on April 9, on the same day was elected President of the Dental Society of Ireland. He served his apprenticeship with the late Dr. W. S. Speer in Belfast, leaving the city to manage the Medical Hall of Dr. A. Spearing, L.A.H., F.R.C.S., London. On the death of Dr. Spearing he bought the business, and during the last eighteen years has built up a large drug-business as well as a successful dental practice. Mr. Smith is now filling his third term of office as Chairman of the Antrim Town Commissioners. In 1915 he received, on behalf of the town, the Lord-Lieutenant of Ireland, and in the following year he was appointed a magistrate for the county. He is an active member of the County Antrim War Pensions Committee and Vice-President of the Antrim Comrades of the Great War. He organised the Red Cross collections in his district, and is the present Hon. Secretary to the memorial scheme to the men of the town and district who have fallen in the war. Mr. Smith is a Vice-President of the Chemists' and Druggists' Society of Ireland, and is Worshipful Master of the Chemists' (Galen) Masonic Lodge 432.



Mr. F. T. Smith.

The Limerick Strike.

A strike in Limerick, begun on April 14 as a result of rigorous military measures under the Defence of the Realm Act, has caused drastic changes in the working of every pharmacy in the city. All the assistants seemed to have joined in the general strike. The proprietors could open for the supply of urgent medicines only on receipt of a special permit from the Strike Committee, business hours being 10 to 11 A.M., 3 to 4 P.M., and 8 to 9 P.M. Trade is brisk between these hours, much in excess of what one man alone can cope with. Toilet requisites are not supplied. To obtain an assistant an employer must procure another permit. A few pharmacies continued to supply through side-doors, but ultimately were compelled to comply with the new conditions. Such was the case at Stewart's Pharmacy, which was picketed until a permit was obtained and the services of non-union men dispensed with. Messrs. O'Sullivan's and MacMahon's pharmacies had to close down owing to the refusal of the assistants to supply the police or military authorities. A Strike-aid Committee, presided over by Mr. F. Fitzgerald, and a Food Depôt, presided over by Mr. T. Blake—both of whom are chemists' assistants—are doing good work in relieving local distress. Through their efforts large quantities of food have been distributed at greatly reduced prices.

A Long-firm Trader.

A case of considerable importance to the wholesale drug trade in England was heard last week at Belfast Bankruptcy Court, when James M'Clean, trading as J. C. M'Cullough & Co., 12 Howard Street, Belfast, appeared to show cause against an adjudication on the petition of the Leicester Rubber Co., Ltd., Leicester, for a debt of 138*l.* 16*s.* Mr. J. H. Robb, for the creditors, said the transactions between the parties began by an inquiry from J. C. M'Cullough & Co. in respect of outfits sold by the Leicester Rubber Co. M'Clean gave as references the Franco-American Products, Ltd., also of 12 Howard Street, and Osborne, Peronne & Co., Garfield Chambers, Belfast. Both these firms, in reply to inquiries, gave glowing accounts of the stability and credit of J. C. M'Cullough & Co., and on the strength of these replies goods were forwarded. A debt of 138*l.* 16*s.* was contracted, and no payments could be obtained. The creditors then commenced to make inquiries, the result of which led them to believe that all three firms were in fact run by M'Clean under aliases. It was found that M'Lean was tenant of 12 Howard Street and the office in Garfield Chambers. Proceedings were instituted by way of debtor's summons, and an adjudication was obtained against which the debtor now sought to show cause. Mr. Alexander, for M'Clean, intimated that he had advised his client to make every effort to settle the matter, and had served notice to dispute the adjudication, with the object of giving him an opportunity of raising the money. Evidence was then given as to the amount due to the Leicester Rubber Co. and the service of a debtor's summons. Mr. James Barron, rent agent, said that M'Clean was the tenant of the office of Osborne, Peronne & Co., Garfield Chambers. Mr. Edward Maze proved the tenancy of 12 Howard Street by M'Clean. Detective-Sergeant A. Mitchell stated that M'Clean had been convicted for fraud in 1911 and sentenced to two years' imprisonment with hard labour. The Judge, refusing the application, remarked that M'Clean ought to be prosecuted.

Drugs and Surgical Appliances Contracts.

The following additional tenders for the supply of medicines and medical and surgical appliances have been accepted (*C. & D.*, April 5, p. 47, and April 12, p. 50):

—	Drugs	Appliances
Ballinasloe ...	Boileau & Boyd, Ltd., 12½%	Clarke & Co., 16¼%
Bandon	Sumner & Co., Ltd., 17½%	Fielding's Pharmacy, 13%
Castletown Bere	Cork Chemical & Drug Co., 12½%	Clarke & Co., 13¼%
Carrick-on-Suir	Boileau & Boyd, Ltd.	J. Clarke & Co.
Newry	Sumner & Co., Ltd., 22½%	Clarke & Co., 23¼%

The Local Government Board intimated to the Athy Board of Guardians that the proposal to give the drug contract to Boileau & Boyd, Ltd., on less advantageous terms than those offered by Sumner & Co., Liverpool (*C. & D.*, April 5, p. 50), cannot be sanctioned. It was agreed to ask Boileau & Boyd, Ltd., if they could accept the contract at the price offered by the competing firm. The Carrickmacross Guardians accepted the drug-tender of Boileau & Boyd, Ltd., Dublin, in preference to the lower tender of Sumner & Co., Ltd., Liverpool, on the point of greater convenience in delivery, but the L.G.B. dissenting, Sumner & Co., Ltd., obtained the contract.—Dr. Hunter (Ballybay) reported to the Castleblayney Guardians that medicines, ordered five weeks ago, have not been supplied, and the dispensary is now without drugs. The Clerk said he had written to the contractors stating that the governors would hold them responsible for any expense incurred. This was approved of.

Business Changes.

Mr. Percy Nicoll (Baiss Bros. & Co., Ltd.) has removed to "Wyndene," Mount Grace Road, Potters Bar, Middlesex.

The offices of the British Executive Staff of the Commission Internationale de Ravitaillement have been moved from India House to Kingsway House, Kingsway, London, W.C. 2.

Mr. Herbert A. Mills, Ph.C., 3 Croxted Road, Dulwich, and 235 Gipsy Road, West Norwood, London, S.E., has recently opened the premises at 127 Gipsy Hill for the sale of photographic and toilet goods.

Scottish News.

Brevities.

It has been decided to bore at Saltcoats for aluminous shale.

The electrification of seed oats has been tried on a considerable scale in Scotland this spring, and the results will be awaited with interest.

In attempts to extinguish a fire which had broken out, on April 18, in a shale-mine near Broxburn, belonging to Young's Oil Co., Ltd., three young men were suffocated by carbon monoxide.

The demand for medicine-stamps has been remarkable during the winter months. This may be partly accounted for by the difficulty experienced in obtaining regular supplies of much-advertised remedies.

Mr. A. L. Wood, chemist and druggist, Stonehaven, has, owing to ill-health, resigned the position of Hon. Secretary and Treasurer to the Stonehaven Golf Club, an office he has held for thirty years. As a young man Mr. Wood played for Scotland against the first Australian cricket team that visited that country.

There are several candidates for the chair of materia medica at Aberdeen University: in the list are Dr. Walter J. Dilling, lecturer on pharmacology at Glasgow University; Dr. Charteris, the Glasgow lecturer on materia medica; and Professor Hugh Marshall, lecturer on materia medica at the University of Dundee.

Ex-Bailie McCorquodale, J.P., chemist and druggist, Markinch, who has disposed of his business to Mr. Duncan R. Sibbald, has been presented with a wallet of Treasury notes as a recognition of his public services in Markinch during the last twenty-one years. Mr. McCorquodale is removing to London, where, after a rest, he hopes to take up light work.

The *C. & D.* "leader" entitled "An Assistants' Union" has evoked emphatic assent in Scottish pharmacy circles. "No union," writes a correspondent, "has ever secured increased salaries or decreased hours for chemists' assistants as such. The rank-and file of pharmacy in Scotland view with pleasurable anticipation the extension of a real live pharmacists' union to look after their interests. There remains much to be done yet."

Edinburgh.

At a recent meeting of unregistered dental practitioners a branch was formed of the British Dental Union. Branches have been formed in Glasgow and Aberdeen.

A notice has been issued that applications for the renewal of licences under the Poisons and Pharmacy Act, 1908, must be lodged with Mr. A. Grierson (Town Clerk) not later than May 10.

The Edinburgh Pharmacy Athletic Club, held in abeyance during the war, has been revived, and competitions will be inaugurated. A ladies' section has been instituted. Mr. J. A. Cochrane, chemist and druggist, has been appointed President.

Easter-egg dyeing, judging from requests for cochineal, etc., is dying out, unless (as has always been the case in parts of the thrifty North) spent tea-leaves are now employed. Last week the writer forgot to put up a stock until on Thursday evening an early bird in the form of a little boy demanded some red dye. And there are others!

The late Mr. John McHardy, of the representative staff of John McKay & Co., Ltd., was a genial Forfarian who will be much missed by pharmacists. He was ready-witted to a degree, and his knowledge of the drug trade was such that "Ask McHardy" often appeared to be the quickest solution of a difficulty. Mr. McHardy was a fellow-assistant at one time with the late W. C. Anderson, the well-known Labour leader.

Glasgow.

A large volume of holiday business has been done by Glasgow chemists this Easter.

Considerable damage was caused on April 15 by an outbreak of fire at Kelvindale Chemical Works, Maryhill.

The death of a prisoner in a Port Glasgow police-office was the subject of an inquiry on April 17. It appeared that canisters of phosphorus—Admiralty stores that had been on board a tug-steamer—were sunk by the master's instructions and subsequently washed ashore. These were conveyed to the police-office, where, after a few hours, they burst into dense smoke and so were alleged to have caused the prisoner's death. The jury found no blame could be attached to anyone.

French News.

(From the "C. & D." Paris Correspondent.)

Disclosure of Formulas.—The Academy of Medicine has passed a resolution asking the authorities to insist on "the inscription of the formulas on all medical or hygienic proprietary preparations, in analogy with what is required for special alimentary preparations: The acceptance of these formulas to be subject to critical examination of titles and statements likely to influence the opinion of the public."

A Tragic Sequel follows the pharmaco-journalistic romance of Lille (*C. & D.*, April 5, p. 53) in the announcement that M. Joseph Williot has died. His end was undoubtedly hastened by the privations of nineteen months' solitary confinement at Rheinbach. He leaves a widow and a large family. Dr. Calmette and he were associated in scientific experimental work before they were induced, by the war, to take up clandestine journalism.

Surplus War Stocks are now being sold in France as in England. The Aviation Services advertise a sale of chemical and pharmaceutical products stocked at Paris, the prices per kilo. being:

Acetate of lime, 90 centimes; crystallised acetic acid, 4 francs; acetic acid (80°), 3fr.60; acetone, 5fr.50; puro methylene, 3fr.25; ordinary methylene, 3 francs; castor oil, 4fr.50.

For acetate of methyl, cloves, clove oil, and eugenol offers are invited.

Venereal Prophylaxis.—The Paris Society of Pharmacy favourably considered a proposal to support the insertion in the French Codex of a recipe for Metchnikoff's prophylactic, calomel ointment. Those members of the Society who are also on the Codex Revision Committee will take the necessary steps to bring the question before that body. The Academy of Medicine has likewise voted in favour of the proposed insertion. The Society and the Academy agree that an official formula should be published at an early date, and that pharmacists should be allowed to sell the medicament without prescription, without rendering themselves liable to prosecution. The formula of this anti-syphilitic preparation is as follows: Calomel, 33; lanoline, 67; vaseline, 10. (See also *C. & D.*, April 12, p. 72.)

Allied Chemical Union.—The "Times" reports that an Inter-Allied Conference of Associations of Pure and Applied Chemistry, which has been taking place in Paris, concluded on April 15 with a banquet, at which M. Loucheur, Minister of Reconstruction, presided. The Conference has laid the foundation for an Inter-Allied Chemical Association to replace the International Association of pre-war times. The programme which has been settled met with the unanimous approval of all the delegates, and it is hoped that the position of the new Association, whose duty it will be to defeat German competition in the chemical industries, will attract the adhesion of all neutral countries. Among the 350 guests present at the banquet were Lord Moulton, Sir William Pope (President of the British Federal Council), Professor Henry Louis (who was head of the British delegates), Mr. Henry Wigglesworth (the chief American delegate), Professor Chavanne (President of the Chemical Society of Belgium), Professor Paterno (Vice-President of the Italian Senate), and Professor Moureu, M. Paul Kessner, and M. Poulenc (Presidents of the three principal French Associations of applied and pure chemistry).

Clinical Thermometers.—Official verification and control of clinical thermometers were rendered compulsory by the Act of August 14, 1918. The decree, fixing the conditions under which the law will be put into force, was published in the "Journal Officiel" on March 5. It is a very lengthy one. Some of the points are: The external surface, for thermometers graduated on the stem, to be prismatic (lens-fronted); "minute" thermometers to indicate, in twenty seconds, the temperature of a vessel of water that has been stirred; approved thermometers to be marked with the official stamp of verification, the registration number of the depôt and the date. A fee of 25 centimes is due for the first examination; of 60 centimes for verification of accuracy, and, in addition, a fixed fee of 1fr. for every thermometer, or every lot of instruments, whatever the number presented. These fees are repaid, with the exception of the last one, on clinicals for export after stamping. Authorisation is given to officials named to collect evidence of any violations of the law. The verification of the *Laboratoire d'essais du Conservatoire National des Arts et Métiers*, if given before the law now in force, will stand.

Legal Report.

Sale of Honey.—The action of the London O.T., Ltd., *v.* J. H. Ironmonger, Ltd., which was tried recently in the High Court, before Mr. Justice Bailhache, was brought to recover damages for alleged breach of warranty. Plaintiffs are manufacturers of O.T. lemon squash and other non-alcoholic beverages, in the manufacture of which sugar, or some other sweetening agent, is required, and defendants carry on the business of sellers of honey and cane syrup. In the course of business defendants supplied honey to mineral-water makers for use in the manufacture of mineral water and other non-alcoholic beverages. Between June and August 1917 defendants sold several parcels of honey to plaintiffs, warranting the honey as being fit to be used as a sweetening agent. Plaintiffs said it was an implied condition of the agreement that the honey should be reasonably fit for the purpose for which it was required. The honey was used in the manufacture of non-alcoholic beverages, but was found to be unfit for the purpose, as it fermented and caused the beverages to become cloudy and bad flavoured. Plaintiffs relied upon there having been an express breach of warranty, and of the implied warranty under Section 41 of the Sale of Goods Act. Defendants denied the alleged warranty. They further said it is a well-known property of honey that it is liable to ferment, and if any of the alleged defects occurred, they occurred by reason of that circumstance. They also pleaded that it was the custom in the honey trade that the seller is in no way responsible for any change in the condition of honey after delivery had been taken. His Lordship, in giving judgment, said that in 1917, owing to the shortage of sugar, people were seeking for an alternative in the manufacture of mineral waters. The knowledge about honey at that time was not what it is now; it was known that it is liable to ferment, and plaintiffs said they received a warranty that it would not do so, though defendants said they never gave such a warranty. Defendants had advertised very largely that pure honey and syrup were giving every satisfaction, and that mineral-water manufacturers would not again return to sugar. Although he thought that defendants did not give a guarantee that the honey would not ferment, still he thought they did assure plaintiffs it would be suitable for their purpose. Under the Sale of Goods Act, defendants, having recommended the article, are liable for the damage which has resulted, and there would be judgment for plaintiffs for 293*l.*, with costs.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Piesse & Lübin, Ltd. (P.C.).—Capital 5,000*l.* Objects: To carry on business as chemists, druggists, perfumers, drysalters, oil and colour men, etc.

Joseph Holdroyd, Ltd. (P.C.).—Capital 5,000*l.* Objects: To take over the business of patent medicine proprietors carried on at the Medical Hall, Westgate, Cleckheaton, as "Joseph Holdroyd."

Lawsper Bleaching Co., Ltd. (P.C.).—Capital 1,000*l.* Objects: To carry on business as shellac bleachers and manufacturers, etc. R.O., Thorburn Street, Upper Brook Street, Manchester.

Boulton & Skelton, Ltd. (P.C.).—Capital 2,000*l.* Objects: To acquire the business of a chemist, druggist, and sundriesman carried on by R. Boulton at Grimsby. R.O., 258 Freeman Street, Grimsby.

British Kamal Co., Ltd. (P.C.).—Capital 500*l.* Objects: To carry on business as manufacturers of and dealers in polishes and toilet requisites, etc. Solicitor: R. G. Williams, Gloucester Chambers, Newport.

Nicholsons (Newcastle-on-Tyne), Ltd. (P.C.).—Capital 20,000*l.* Objects: To take over the branch business now carried on at Newcastle-on-Tyne by John Nicholson & Sons, Ltd., chemical manufacturers, etc.

Pattinson & Mackie, Ltd. (P.C.).—Capital 3,000*l.* Objects: To carry on business as export and import merchants, manufacturers' agents, manufacturers of and dealers in chemists' sundries, etc. R.O., 42 Newgate Street, London, E.C.

Deacon & Co., Ltd. (P.C.).—Capital 3,000*l.* Objects: To acquire from W. Deacon, chemist, High Street, Bridgwater, certain recipes, prescriptions, and trade secrets, and to carry on the business of manufacturing chemists, etc.

Manufacturing Agencies, Ltd. (P.C.).—Capital 2,000*l.* Objects: To carry on business as manufacturers of and dealers in sanitary sweeping powder, sanitary fluids, coal-tar productions, etc. Solicitor: H. C. Trapnell, 18 Orchard Street, Bristol.

Hydrates, Ltd. (P.C.).—Capital 1,250*l.* Objects: To carry on business as manufacturers of and dealers in apparatus for recovering or treating waste or spent chemical substances, manufactuing chemists, etc. R.O., 32 Charing Cross, London, S.W. 1.

Monastère, Ltd. (P.C.).—Capital 5,000*l.* Objects: To carry on business as manufacturers of and dealers in liqueurs, cordials, syrups, beverages, herbal and fruit essences, etc. Solicitor: F. W. T. Thorp, 79 Salisbury House, London, E.C. 2.

Indian Perfume Co., Ltd. (P.C.).—Capital 2,000*l.* Objects: To carry on business as manufacturers and importers of and wholesale and retail dealers in perfumery, toilet requisites, soap, fancy goods, etc. Solicitor: A. K. Whitaker, 19 Clifton Street, Belfast.

Essential Factories, Ltd. (P.C.).—Capital 70,000*l.* Objects: To carry on business as manufacturers of and wholesale and retail dealers in artificial limbs, crutches, rests, surgical and medical appliances, etc. Solicitor: C. Humphries, 36 Basinghall Street, London, E.C.

Gasonite Co., Ltd. (P.C.).—Capital 10,000*l.* Objects: To carry on business as manufacturers of and dealers in soil-dressings, chemical manures, insecticides, etc., carried on at Cromwell Road Chemical-works, Grimsby, as "Gasonite." R.O., Cromwell Road Chemical-works, Grimsby.

Universal Incandescent Light Co., Ltd. (P.C.).—Capital 10,000*l.* Objects: To acquire from H. F. S. Smith a secret process for the manufacture of artificial silk gas mantles; manufacturers and dealers in chemicals, etc. Solicitor: J. D. Arthur, 171 Queen Victoria Street, London, E.C. 4.

Wiggins Teape & Co. (1919), Ltd. (P.C.).—Capital 1,500,000*l.* Objects: To take over the business of paper-makers carried on by Wiggins Teape & Co., Ltd.; also to carry on the business of photographic, scientific and technical paper, etc. Solicitor: M. Piesse, 15 Old Jewry Chambers, London, E.C.

Ostroyd Engineering Co., Ltd. (P.C.).—Capital 500*l.* Objects: To acquire the business of a mechanical and surgical engineer and artificial-limb manufacturer carried on by Henry Ostrovsky at 34 Aylesbury Street, Clerkenwell, under a similar title. R.O., 34 Aylesbury Street, Clerkenwell, London, E.C.

Douch, Ltd. (P.C.).—Capital 10,000*l.* Objects: To take over the business carried on at 9A Old Broad Street, London, E.C., as "W. Douch, late Lamplough," and to carry on the business of chemists, druggists, drysalters, oil and colour merchants, etc. R.O., 8 Union Court, Old Broad Street, London, E.C.

Lombard Industrial Corporation, Ltd. (P.C.).—Capital 30,000*l.* Objects: To carry on business as capitalists, financiers, concessionaires, merchants, agents, mine owners, electro-metallurgists, electricians, engineers, pharmaceutical manufacturing and consulting chemists, oil and colour men, etc. R.O., 24 Coleman Street, London, E.C.

Tanner & Co., Ltd. (P.C.).—Capital 1,000*l.* Objects: To acquire the business of a manufacturing and pharmaceutical chemist carried on by A. E. Tanner at High Cross, Tottenham, as "Tanner & Co." The permanent directors are: A. E. Tanner, 350 High Road, Tottenham, chemist; W. E. Tanner, 350 High Road, Tottenham, artist; F. Hazlitt, 5 North Terrace, Bishop's Stortford, chemist.

Integral Oxygen Co., Ltd. (P.C.).—Capital 16,000*l.* Objects: To acquire the interest of Arthur Lyon & Wrench, Ltd., in their agency arrangement with the International Oxygen Co. of the U.S.A., to take a licence from the American company to this company, to manufacture and sell certain patent apparatus, to acquire any interest in inventions relating to electrolytic apparatus for the production of oxygen and hydrogen. R.O., 38 Victoria Street, London, S.W.

Benger's Food, Ltd.—The directors announce a final dividend of 1*s.* 3*d.* per share, tax free, making 2*s.* 3*d.* for the year—the same as the previous year.

Joint-stock Companies.—Notice is given in the "London Gazette" that the following companies will, unless cause is shown to the contrary, be struck off the Register and the companies be dissolved after May 25: Association of Physicians and Surgeons of the Society of Apothecaries, Ltd.; Buvo Extract of Meat, Co., Ltd.; Dr. Beesly's Preparations, Ltd.; Dr. Meyer's Processes, Ltd.; Gray's Remedies, Ltd.; Iodell Chemical Co., Ltd.; Maxim Food Syndicate, Ltd.; Soda Fountain Manufacturing Co., Ltd.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative

The Easter Recess.

The House of Commons adjourned on April 16 until April 29 for the Easter Vacation. The Budget will be introduced on April 30, and the discussion will be continued on the following day.

Manufacture of Farina.

Mr. McCurdy, for the Food Controller, in answer to a question, stated that a farina mill at Monckie, Forfar, is being built and equipped by the British Farina Mills, Ltd. The greater part of the estimated cost (66,000*l.*) is being advanced by the Government. The mill is expected to be ready in time to deal with the potato crop this year.

The Opium Traffic.

Our Parliamentary correspondent states that, according to letters just received by the Church Missionary Society, it appears that the people in the neighbourhood of Anhsien, Szchwan Province, were very busy growing poppies in November last, while at Mowchow vast quantities of raw opium were to be seen in the streets every day, and dealings in the drug were going on at a very rapid rate. In another district the Red Cross Society visited a neighbouring military centre ostensibly to assist in caring for the wounded, but in reality to dispose of a few thousand ounces of opium. The opium traffic seems to be very widespread and general again.

Cocoa-trade.

Mr. Roberts, in the House of Commons, stated that the Ministry of Food has exercised no control over the import of cocoa apart from taking the necessary steps to ensure that sufficient tonnage is placed at the disposal of importers to enable them to bring adequate supplies to this country. The question of removing or suspending the controlled price is now under review. As regards export, although there are considerable stocks of raw materials in this country, there is a great shortage of the finer qualities, and in order to safeguard home supplies it is still considered necessary to maintain the existing restrictions. The quantities of raw cocoa normally exported from this country before the war were very considerably below 50 per cent. of the importation.

The Opium Convention.

On April 16, in the House of Commons, Major Jameson asked the Foreign Secretary what action has been taken with a view to secure the ratification and enforcement of the International Opium Convention, 1912, by those Powers which, prior to the war, had not deposited their ratification.

Mr. Harmsworth replied: The British Peace Delegation have submitted a proposal that all the Powers represented at the Conference should bind themselves to take such steps as may still be required on their part to bring the Opium Convention of 1912 into force, and that a clause should be inserted in the peace terms imposing upon the enemy States the obligation of ratifying the Convention at an early date, and enacting the legislation necessary to carry out its provisions. The British Delegation have further suggested that the League of Nations should be entrusted with the duty of supervising the execution of the terms of the Convention, and generally of exercising control over the international traffic in opium and other deleterious drugs.

German Potash and Ores.

Mr. Bridgeman, for the President of the Board of Trade, stated in the House of Commons on April 14 that the German production of potash and metallic ores in 1912 was as follows:

	Production Metric tons	Approximate Value at the Mine £
Potash from mines—		
Kainite	5,889,238	3,819,100
Carnallite (including kiescrite)...	5,271,964	2,162,650
Potash, from wells, etc.—		
Potassium sulphate	123,407	1,018,650
Potassium and magnesium sulphate	54,435	221,200
Potassium chloride	506,744	3,434,200
Metallic ores—		
Cobalt nickel, bismuth tin ores, and bauxite	47,526	36,700
Uranium and tungsten ores ...	5,053	3,200
Iron ore	27,200,000	5,506,650
Lead ore (Argontiferous)	107,563	962,450
Manganese ore	92,474	58,400
Pyrites	262,653	101,500
Copper ore	974,285	1,596,800
Zinc—Blende	516,358	2,490,500
Zinc—Calamine	120,950	106,700

Assistants Organising.

Leeds.—A meeting took place at Leeds on April 15, under the auspices of the Leeds District Branch of the National Warehouse and General Workers' Union, of retail pharmaceutical assistants, with a view to organising them as a section of the Union. Mr. H. Nunns presided; Mr. H. Jones, the national organiser of the Union, and Mr. Geo. Beardsworth, acting local secretary, were the speakers. Mr. Jones mentioned that 90 per cent. of the wholesale drug-trade workers are already organised, and he urged the importance of pharmacists' assistants being attached to an organisation like the Union, which will be an important factor in the coming drug-trade Industrial Council. Mr. M. E. Murray, speaking as an employer pharmacist, agreed that chemists' assistants lack organisation, but pointed out that they are in a position very different from that of the ordinary trade unionist. He agreed that there should be shorter hours and standard wages, but remarked that if the wages are to be higher the chemists' charges will have to be higher also. As to disputes, a strike of chemists' assistants will very seriously affect the health of the public by interfering with the medicinal service. Mr. Jones, in reply, held that if pharmacists and their assistants are properly organised, and can get round a table to deal with affairs in a commonsense manner, there will be little risk of such dispute. The public must be educated to the acceptance of shorter hours. Mr. Jones added that chemists in business for themselves are eligible for membership of the Union. It was decided to form a local pharmacists' section of the Union.

Manchester.—On April 16 a meeting, convened by the National Warehouse and General Workers' Union, was held to consider the advisability of forming a branch of the Pharmacists' and Assistants' Section of the Union. Mr. J. Kirby, the local organiser, occupied the chair, and called on Mr. Wright Robinson, the district organiser of the Union, who said that the action of his Union would affect other employés in the industry, as they already embraced a large number of drug-trade workers. He urged the advantage of one union. Active propaganda was in progress simultaneously for the formation of branches in large centres such as Glasgow, Leeds, and Birmingham. A branch had been formed at Liverpool. It would be an advantage to have the backing of a powerful union possessing efficient machinery, practical experience, and funds. He hoped they would join the union which had the largest number of workers in the drug industry. Many questions were asked. Mr. Fullerton said that, if trade unionism were the only remedy, he preferred the union which limited its membership to the workers in the industry, but that the force of argument should be tried before the argument of force. With this object he advocated the trial of an association of employés rather than a trade union. Should this fail, other methods—trade unionism, perhaps—might be adopted. The proposition that a branch be formed met with no response.

Medical Gleanings.

Quinone Peroxides in Skin-diseases.

On account of the special chemical activity of quinone peroxides, which includes the tanning property possessed by a 1 per cent. solution of quinone, Brissemoret and Michaud ("Journ. Pharm. Chim.," 16, 283-5) are of opinion that their exfoliating properties may prove useful in the treatment of eczema, psoriasis, and impetigo. Benzoquinone and juglone were studied; the latter is stated to deserve extensive use in dermatology.

Magnesium Sulphate in Infected Wounds.

In a paper on the treatment of infected war wounds by magnesium sulphate, Morison ("Brit. Med. Journ.," 2986, p. 342) gives the following mode of preparation for a *magnesium sulphate cream*: 1.5 lb. of dried magnesium sulphate is mixed with 11 oz. of glycerin acid. carbolic. (1 in 10), the latter is put in a hot mortar and the magnesium sulphate added, slowly stirring and mixing with a warm pestle all the time. A thick white cream results, so hygroscopic that on exposure to the air it rapidly absorbs moisture and becomes fluid. The carbolic acid was first added for its analgesic properties, but this precaution was found to be unnecessary, as the only discomfort of which the patients complain when carbolic acid is not present is that the cream feels cold for a short time after its application.

The Purity of Commercial Aspirin and Aspirin Tablets.

By A. J. Jones.

In the earlier stages of the manufacture in this country of aspirin, it was almost impossible to maintain a supply of the product of the recognised standard, such a condition of affairs being what is expected when the inexperience and difficulties attending a new manufacture are taken into account. Some samples were very good, others graded down to products that could not be passed at all, whilst frequently the purchaser's only option was to buy the least faulty samples on offer at the time. Many were not of the standard of the British Pharmacopœia, and the opinion was even expressed that the official standard was commercially impossible. The characters and tests of the British Pharmacopœia do not admit the question of grade, nor are they sufficient to offer any help when that matter becomes involved. In such cases a more detailed examination is necessary, and the present paper is a note of results and observations made in this direction. The samples are of moderately recent date, and, since a much better stage of stability in the manufacture has now been reached, these are fairly representative of the current market.

Methods of Testing.

The tests used in the case of the samples of aspirin in question consist of determinations of acid, ester, and bromine values, together with free salicylic acid, and melting-point. For the better comparison the results are expressed in c.c. $N/5$ per 1 gram of substance, the bromine value being reduced to terms of a monobasic reaction: that is to say, one atom of bromine per molecule. Under these conditions it is clear that with true acetylsalicylic acid the three sets of figures should be identical. The details of the procedure adopted in the tests are as follows:

Standard $N/5$ acid is prepared and a similar solution of caustic soda free from carbonate, setting this with phenolphthalein and running the caustic into the acid.

The bromate solution consists of potassium bromate ($KBrO_3$) 5 grams and potassium bromide (KBr) 20 grams, water 1,000 c.c.

The $N/10$ thiosulphate is standardised against the iodine liberated from potassium iodate (KIO_3) and potassium iodide (KI) by a given amount of the $N/5$ acid used above, this precaution being taken so that strict comparison is possible, all titrations being really in terms of one standard solution—the original $N/5$ acid.

Determining the Acid and Ester Value.

One gram of the sample is accurately weighed and rinsed into a flask with about 15 c.c. of absolute alcohol (B.P.); solution being complete, phenolphthalein is added, and the titration made with the $N/5$ soda. Fifty c.c. of the same soda solution is now added from a pipette, and another 50 c.c. taken, draining the pipette in exactly the same manner, for a blank. Reflux tubes are fitted, the flasks set in a water-bath for about twenty-five minutes, then cooled and titrated back with the acid; the difference between the blank and test titres being the number of c.c. $N/5$ equivalent to the ester, and should (theoretically) be identical with the acid titration.

As it is quite possible for slight hydrolysis to occur while determining the acidity, comparative tests were made by estimating the difference in the amount of free salicylic acid before and after titration. Standard acid, equivalent to the number of c.c. of alkali used in the test, was returned to the titrated liquid before the comparison was made by the iron test. Half a gram of aspirin was used, and it was found that 0.1 to 0.5 milligram were the extreme limits due to titration, with a fair average of 0.3 milligram—or, say, 0.02 c.c. $N/5$—for one gram. Since

Results of the Examination of Samples of Acetylsalicylic Acid.

Origin	Acid Value	Ester Value	Total	Bromine Value	Salicylic Acid, % ex Br. Value	Free Salicylic Acid: %	Free Salicylic Acid: Equivlt. c.c. $N/5$ per gram	Melting Point	Behaviour with Iron	In Soda Solution: Colour	In Soda Solution: Odour
Theory	27·760	27·768	55·537	27·769	76·66	0	0	133-135°C. & 137°C.	—	—	—
GROUP I.											
1. N. England	27·74	27·70	55·44	27·78	76·68	0·05	0·02	135–136	clear	pale straw	faintest trace of pyridine
2. S. England	27·60	27·59	55·19	27·67	76·38	0·3	0·11	132	clear	yellow	not at all good
3. S. England	27·70	27·58	55·28	27·82	76·78	0·075	0·03	135–136	clear	pale straw	none
4. Japan	27·83	27·43	55·26	27·69	76·42	0·113	0·04	134	clear	full yellow	distinct smell of acetic ether
5. N. England	27·78	27·43	55·21	27·78	76·68	0·20	0·07	—	clear	full yellow	very objectionable
6. S. England, same make	27·68	27·43	55·11	27·70	76·46	0·15	0·05	132–134	clear	pale straw	distinct traces of acetic ether
7.	27·60	27·42	55·02	27·67	76·38	0·175	0·06	132–134	clear	pale straw	
8. London broker	27·58	27·33	54·91	27·73	76·54	0·075	0·03	135	faint opalesc.	—	—
9. London broker	27·78	27·22	55·0	27·68	76·40	*	—	—	—	—	—
10. Unknown	27·96	27·23	55·19	27·66	76·34	0·125	0·045	134	clear	buff	slight odour
GROUP II.											
11. American, same shipper	27·20	28·02	55·22	27·89	76·98	0·05	0·02	132	very turbid	very pale straw	faint pyridine and salol
12.	27·25	28·02	55·27	27·89	76·98	0·05	0·02	132	turbid		
13. Manufacture ceased ...	27·24	27·92	55·16	27·89	76·98	0·125	0·045	134–135	slight opalesc.	pale straw	trace, aniline-like, with suggestion of salol
14.	27·48	27·73	55·21	27·64	76·30	0·10	0·036	134–135	clear		
15. London Wholesale House	27·38	27·68	55·06	27·83	76·82	0·10	0·036	131	very turbid	straw	strong aniline-like.

* Free salicylic absent by B.P. test.

this is accompanied by its equivalent of acetic acid an adjustment is required in the relative acid and ester values. One should, therefore, deduct 0.02 c.c. from the experimental acid figure and add it to that of the ester.

The Bromine Value.

Accurately weigh 0.5 gram of the acetylsalicylic acid, wash into a flask, add 15 c.c. $N/5$ soda, and set in a water-bath as described above. After the twenty-five minutes this solution is cooled to room temperature, diluted and transferred to a 250-c.c. flask, and carefully adjusted to the volume and well shaken. One should be sure either that the instruments are exact or else take the precaution of graduating the flask by ten deliveries, each made in exactly the same manner, from the 25-c.c. pipette about to be used. Twenty-five c.c. is withdrawn by a pipette and delivered into an accurately stoppered 16-oz. shop round; add 25 c.c. of the bromate solution, also very accurately delivered, and then 250 c.c. of water. Fifteen c.c. of hydrochloric acid (B.P.) is added, and the bottle stoppered. A blank is prepared in precisely the same manner, and both are set aside for twenty minutes with occasional shaking. Fifteen c.c. of 10-per-cent. sodium iodide solution is then run in with all necessary precautions, the solution well shaken for a few minutes and then

titrated with $N/10$ thiosulphate, using a solution of soluble starch as indicator. Duplicate tests agree to within 0.05 of a c.c.

To check both solutions and the manipulation comparison was made with two samples of specially prepared salicylic acid. In the test in question this showed 99.9 and 100 per cent. of the acid taken. From the difference between the blank and the test, the number of c.c. $N/5$ taken by one gram of the aspirin is calculated, dividing this by six—since six atoms of iodine thus shown are equivalent to one molecule of salicylic acid—there is obtained a number of c.c. which should (theoretically) exactly agree with the acid and ester figures.

Determining Free Salicylic Acid.

Dissolve one gram of salicylic acid in about 60 c.c. of alcohol, and then adjust to 100 c.c. with water; 10 c.c. of this liquid is diluted to 1,000 c.c., making 1 c.c. equal to $\frac{1}{10}$ milligram of salicylic acid. Prepare also a 1-per-cent. aqueous solution of iron alum.

For the test, dissolve 0.5 gram of the aspirin in a measuring cylinder with 9 c.c. of alcohol, dilute with water to 90 c.c., and well mix. Take two precisely similar Nessler glasses. Into one pour 60 c.c. of the solution, into the other 30 c.c., together with 3 c.c. of alcohol, and adjust to the volume of the first; this gives a difference of 200 milligrams of aspirin in a mixture of equal parts of alcohol and water. One c.c. of the iron solution is added from a pipette to each, and the colour matched by adding the standard salicylic-acid solution from a burette. Supposing 4 c.c. to be required, we then have 200 milligrams aspirin= 0.4 milligram salicylic acid, or 0.2 per cent. The limit that admits of satisfactory matching is about 0.5 milligram. It has been found necessary to adopt this method because both aspirin and alcohol have an effect on the iron colouration.

The B.P. test, if used with a little discretion in the interpretation of "violet colour," is good enough for detecting inferior samples, but in those cases where one hesitates as to whether a sample can be passed, it is sometimes a trifle misleading. The various factors effecting solubility, such as crystalline condition and surface effects, come into play, and where but slight traces are present, a comparison formed on the B.P. test may be reversed on complete solution, as in the test described. It is preferable to adopt the latter test and work to a definite limit.

Another modification of the test is described in the British Pharmaceutical Codex, the Belgian Pharmacopœia, and elsewhere—namely, that 0.1 gram of aspirin when dissolved in 5 c.c. of alcohol and 20 c.c. of water added should give no violet colour with ferric chloride. It should be pointed out that in this strength of alcohol the colouration is strongly depressed, and further so by employing ferric chloride in preference to iron alum. It has been found that with this test, and using one drop of 5-per-cent. ferric-chloride solution, a sample containing 0.15 per cent. of free salicylic acid gives only a brownish yellow, with 0.2 per cent. a shade of pink to which serious exception cannot be taken, and with 0.3 per cent. a very distinct salicylic reaction. This test is a good guide for sorting-out purposes and in routine work, but it is not suitable for precise work. Increase in the iron still further depresses the colouration.

Deductions.

The first thing noticeable is, that there are two distinct varieties of commercial aspirin: one, where the acid is either equal to or exceeds the ester; the other, in which the ester is in distinct excess of the acid as well as being in excess of theory in some cases; while in both groups the saponification value is consistent throughout, and always less than theoretical.

Acid and Ester Value.—On examining the figures for samples 1 to 10, it will be seen that if the determination by iron be assumed to measure the dissociated salicylic and acetic acids, in sample 1 the acid exactly agrees with the ester (27.72 and 27.72), and also very nearly so in the case of sample 3 (27.67 and 27.61), as required by theory, whilst sample 2 is placed in the other group. But in the remaining samples, for a constant value in the ester, the acid varies in the ratio of from 100:100.7 to 100:102.7, and the presumed dissociation does not account for this difference in any degree. It, therefore, appears that there is a certain acidity either in the preparation or developed in solution of many samples, which is neither due to free salicylic acid alone nor to dissociated acetylsalicylic acid.

Bromine Value.—In considering the bromine value in its relation to the acid and ester, in the case of the first group, it is seen to approximate the acid value rather than the ester. This is what one would expect, since it is the salicylic group in the molecule that is responsible for both figures. It might further be supposed that any dissociation would be reflected in the acid value exceeding the bromine, the difference being due to dissociated acetic acid and equal to the free salicylic found by the iron test in terms of $N/5$ soda per 1 gram. If the salicylic acid found occurred as such, and not as a product of dissociation, both acid and bromine value should agree, but on looking into the figures this is seen not to be the case. In eleven out of the fifteen examples the bromine is in excess of the acid, in Group I. slightly, in Group II. very markedly, and at the same time noticeably agreeing with the ester value.

With regard to these two points, after reviewing the figures and making allowances for the probable dissociation, it would appear that the excess of bromine in the first set of examples can best be explained by assuming salicyl-salicylic acid being present in minute quantities. In the second series one might expect acetyl-salicyl-salicylic acid to be in the main the contaminating substance, as with this substance there are two salicylic groups in the molecule and the ester value is also double the acid value, hence to the extent of its presence in aspirin both ester and bromine value would rise in agreement. Sample 15 is suggestive of both salicyl-salicylic acid and acetyl-salicyl-salicylic acid being present.

In this connection it has been observed that on taking about a gram of the aspirin, fifteen to twenty drops of methyl alcohol, about 8 c.c. of water and adding some crystals of sodium carbonate, warming to effect solution and then boiling for about half a minute, both during the operation and on allowing to cool a strong odour of methyl salicylate is developed in samples of the second group. In those represented by 2, 6, and 10 there is no trace of the wintergreen odour, while others where the bromine value is high give a slight suggestion.

In the three exceptions (4, 9, 10), which might fall in with the above statement regarding the acid exceeding the bromine value, the excess acid is considerably greater than that due to dissociation, as indicated by the iron test, thus confirming from another point of view what has been said above regarding the occurrence of an acidity not due to acetyl-salicylic acid. This "excess" acidity is not open to any ready or easily demonstrable explanation, but the presence of such a body as salicyl-acetic acid, $C_6H_4.O.COOH\ CH_2.COOH$, in which there are two carboxyl to but one salicylic group, is very suggestive. With a chemical like aspirin, where a number of secondary products are possible, quite apart from real extraneous impurities, in the absence of specific reactions it is largely a matter of conjecture what the precise substances are that cause the variations in the analytical figures with different samples. That there are traces of other impurities present in some samples is certain, the peculiar odours in the crystals or powder, frequently developed by treating with solvents and with alkali, and the different intensity in colour of the caustic and carbonate of soda solution all show this. On treating with soda faint odours have been observed suggestive of salol, acetoacetic ester, pyridine, and anilin, and in some cases very strong and objectionable odours difficult to describe.

Suggested Standard.

The question now remains as to what analytical figures may be considered characteristic of the best grades on the market, and the following is suggested:

Where the acid value is greater than the ester value, that the difference should not exceed 0.3 c.c. $N/5$ soda per gram and the bromine figure should not exceed the acid value by more than 0.15 c.c. in similar terms. Where the ester exceeds the acid, the excess should not be more than 0.3 c.c. $N/5$ soda per gram, and in this case the bromine figure should not exceed the ester value.

For free salicylic acid the limit should be not more than 0.15 per cent., and no turbidity should occur in the iron test.

A good sample should also give only a very pale straw colour when dissolved in 10 or 20 per cent. soda, and there should be practically no odour either in the dry state, in soda solution, or when damped with spirit and water.

The melting point should not be lower than the present official standard. An experience of a very large number of samples shows that the best samples melt at approximately 136°. Such specimens have a decisive melting point, varying within a degree in consecutive determinations, and there is a sense of stability which is lacking with the lower figures. Samples which have given subsequent trouble in

practical experience have almost invariably been those melting below 133° C.

It is sometimes urged that since one of the main objects in the use of acetylsalicylic acid is to provide salicylic acid in an esterified form, from which it is liberated under certain conditions by gradual hydrolysis, the occurrence in aspirin of small amounts of compounds such as salicylsalicylic acid, which is itself used in medicine, is not a matter of real importance. What may be said for or against this from a pharmacological standpoint, or to what extent such contamination might be allowed in the drug, cannot be entered into here, but if this were agreed to then a test limiting values would be essential unless it is found—and there is a good deal to be said for this—that the present official tests with a definite limit for the free salicylic acid are such as will ensure a product of a sufficient degree of purity for all medicinal purposes, while not demanding refinements the attainment of which would throw an undue burden on the manufacturer without any practical or commensurate advantage to the patient.

Aspirin Tablets.

There seems to be an inclination in some directions to look upon tablets as mysterious composts in which very questionable ingredients may be safely hidden, and one finds a good many disappointments in examining these products. In the case of aspirin tablets excessive free acid, very high ester and excessive excipient balanced by deficient aspirin are the chief faults. On examining a series of what may be called "standard" makes all were found to be excellent products in very close agreement, but none was of that superlative quality in relation to any other as one might expect.

Disintegration is a property occasionally lost sight of, and one brand of "Chemist's own label" variety, after digesting in water for two days, required firm pressure with a glass rod to break it up. The desideratum is that the tablet should be of good appearance, clean cut and pressed, able to withstand carriage—whether in bulk or in the tablet-bottle in the waistcoat pocket—yet capable of immediate disintegration in water. In the "standard" series mentioned above all the samples were very satisfactory in this respect. On dropping the tablets into water and allowing them to remain for half a minute without agitation some "effloresced" into a powder, others swelled and parted, and all save one became powder on swirling the test-glass; the exception remained partially powdered, about half the tablet retaining its form, yet being quite soft and dissolving within a minute or two. In this connection it is interesting to note what must indicate variability in machining, which must occur, for on taking six or eight tablets, as was done with one brand, about half of them disintegrated within ten seconds, the remainder taking the full half-minute.

Analytical Precautions.

In the examination of tablets certain precautions are necessary on account of the excipient, which, apart from the usual starch, talc, and adhesives, sometimes includes small quantities of a wax or fatty substance. Stearic acid has been noted in one or two cases, and if this and substances such as Japan wax are employed it is clear that for very precise work analytical procedure must be modified to meet them. A determination of the free salicylic acid by iron and the total by bromine is perhaps the most satisfactory means of evaluation. In the latter test it is best to extract the tablet with alcohol and filter; add alkali and distil off the alcohol during saponification, then follow the method indicated in the case of aspirin.

For the free salicylic acid, crushing the tablet and applying the B.P. test is not of much value where fatty excipients have been used since, while really containing quite the ordinary traces, the barest evidence is given in the water test. For the estimation it is best to take one, two, or three tablets, grind up in a mortar with 9 c.c. of alcohol and a little kaolin, adding 70 c.c. of water, and drawing through a Gooch filter, then washing with another 20 c.c. of water, the volume being adjusted finally to 90 c.c. and the determination completed as before. Since the difference is one-third, it is useful to remember that by multiplying the number of c.c. of standard solution used to effect the match by 0.3 (since 1 c.c. = $\frac{1}{3}$ mgm.) one gets the milligrams of free acid in the tablets taken. For example: two tablets were treated as described, and required 3 c.c. of the standard for matching; therefore the two tablets = 0.9 mgm. of free salicylic acid and consequently one tablet (5 grs. or 324 mgm.) = 0.45 mgm., or 0.14 per cent. on the presumed aspirin content. In bad cases it may be necessary to make a dilution of one tablet and take an aliquot part of that, say, a fifth or even a tenth.

The following quantities have been found: (*a*) 0.12 per cent., (*b*) 0.16 per cent., (*c*) 1.85 per cent., (*d*) 0.14 per cent., (*e*) 0.185 per cent., (*f*) 0.06 per cent. Samples (*a*) to (*d*) are well-known brands of which (*c*) lays claim to very high excellence in common with the others; (*e*) is a "Chemist's own label" variety; and (*f*) occurs in trade without advertisement. Aspirin from the same source as (*c*) is shown as (2) in the acetylsalicylic acid table on p. 60. As to the limit of free acid allowable, 0.2 per cent. would cover all reasonable requirements and permit a small margin for deterioration due to the manipulation required in preparing the tablet mass.

The following table gives the analytical figures for five samples selected from different sources. The "values" are c.c. $N/5$ per 1 gram of the powdered-tablet mass just as in the case of the acid itself, the assay being on the alcoholic extract.

No.	Weight	Acid Value	Ester Value	Bromine Value	Free Salicylic Acid	Aspirin		Ash
						Per cent.	Per Tablet	
	Grains				%		Grains	%
1	5·60	23·73	23·44	23·91	0·12	86·08	4·82	None
2	5·66	24·62	24·48	—	0·12	88·15	4·98	2·25
3	5·50	25·25	25·17	25·10	Mere trace	90·36	4·97	4·54
4	5·46	21·63	22·98	21·78	Full react.	76·41	4·28	7·20
5	5·17	18·48	20·03	19·59	—	72·0 (approx.)	3·73 (approx.)	3·10

Number (1) is a semi-proprietary, (2) is from a wholesale house, and (3) from a firm of tablet-makers. Numbers (4) and (5) are examples of very inferior products, the last-named being obviously fraudulent.

It should be pointed out that the difficulty with aspirin is one of theory and practice. Acetylsalicylic acid is a definite chemical substance, but in the process of manufacture the difference of *technique* employed, together with the possibilities for secondary reactions, results in the production of an aspirin that departs fractionally from theory. If a manufacturer is producing a chemical which does so depart, yet is commercially acceptable and medicinally satisfactory, he is hardly likely to modify his output. One has, therefore, to be prepared to meet variation in commercial samples, hence the suggestion earlier in this article. Users of aspirin must, however, exercise care in regard to the development of odour. Sellers will not always recognise the complaint of buyers in this respect, but it is very important. Odour sometimes develops to a remarkable and inexplicable extent in use, and on keeping, which no amount of reference to figures will negative. It is wise to put aside all samples that are the least suspicious in this regard.

It is hoped that the subject of aspirin standards may be of interest to others, and that some further expression of experience and views may be forthcoming.

This note is the result of work carried out in the analytical laboratories of Evans Sons Lescher & Webb, Ltd., at Liverpool.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Partial Synthesis of Quinine.—Rabe and Kindler (Ber. 51, 1918) report that quinicine (quinotoxine) and NaOBr form N-bromoquinicine, melting-point 123°, which with alkali yields quininone; the latter is reduced to quinine with aluminium powder and $NaOC_2H_5$.

Neutralisation of Alkaloids.—Sturm van Leeuwen ("Arch. Neerl. Phys.," 1918, II., 650) has made the interesting observation that pilocarpine dissolved in rabbit's serum in the course of twenty-four hours progressively loses its property of exciting the intestinal muscle of a cat. Sera of other animals exhibited this neutralising effect in a minor degree, dog's serum being quite inactive. The disappearance of this property of pilocarpine was not due to a destruction of the alkaloid, as it could be recovered and then displayed its characteristic effects. The author found that these neutralising agents were present not only in the serum, but also, in varying proportions, in the liver and other organs, and he assumes that the divergences in the action of alkaloids on animals is due to variations in susceptibility consequent on the presence of these bodies in varying proportions.

Birth.

Stott.—At 11 Cornwallis Crescent, Clifton, on April 14, the wife of W. S. Stott, chemist and druggist, of a daughter.

Marriages.

Clegg—Highley.—At Castlemere United Methodist Church, Rochdale, on April 17, John Clegg to Mary Lord Highley, B.A., elder daughter of Mr. William Highley, chemist and druggist, St. Alban's Street, Rochdale.

Dobson—Haydock.—At St. James's Church, Blackburn, on April 19, Arthur Stanley Dobson, chemist and druggist, to May, daughter of Mrs. Haydock, London Road, Blackburn.

Hindley—Collard.—At Heavitree Church, Exeter, on April 22, by the Rev. T. J. Ponting, Harry Hindley, Ph.C., Wavertree, Liverpool, to Dorothy Maud, only daughter of the late Mr. Collard, Countess Weir, Exeter.

Jephcott—Gregory.—At St. Paul's, Avenue Road, Hampstead, London, N.W., on April 19, Harry Jephcott, Ph.C., to Doris Gregory, Ph.C.

Norrie—Tapley.—At Holy Trinity Church, Dover, on April 12, James Shepherd Norrie, chemist and druggist, to Elsie, second daughter of Mr. A. Tapley, 15 Waterloo Crescent, Dover.

Deaths.

Evans.—At Bloemfontein, Orange Free State, recently, of paralysis, Mr. E. N. Evans, formerly in business as a chemist at Ewell, Surrey.

Golightly.—The funeral of the late Mr. John William Golightly, chemist and druggist, whose death was announced in our last issue (p. 56), took place at Pudsey Cemetery on April 16. Among the representatives of public bodies present were the Chairman of the Pudsey Insurance Committee (Mr. W. A. Guttridge) and the following members of the Leeds Chemists' Association: Mr. N. N. Armitage, Ph.C. (President), Mr. E. E. Haslegrave (Secretary), and Mr. A. Riley.

Mercer.—At Clevelands, Whitefield, Manchester, on April 10, Mr. Allan Mercer, chemist and druggist, aged eighty-one.

Personalities.

Mr. J. Hinton Lake, Ph.C., Exeter, and Mrs. Lake, recently celebrated their golden wedding.

Mr. J. W. Caunt, chemist and druggist, Kington, has been elected a member of the Kington Urban Council.

Mr. Chas. L. Huisking, President of Chas. L. Huisking, Inc., 5 Platt Street, New York City, is on a visit to London.

Mr. A. E. Hobbs, J.P., Ph.C., Tunbridge Wells, has been re-elected a Vice-President of the Tunbridge Wells Chamber of Commerce.

Mr. J. Wynn Williams, chemist and druggist, Wrexham Street, Mold, has been elected a member of the Mold Urban District Council.

Mr. S. C. Rowland, chemist and druggist, Whitchurch (Salop) has been elected a member of the Whitchurch Urban District Council.

Captain J. Flint, M.C., who is well known in Continental and West End business circles, is shortly joining the staff of Parke, Davis & Co.

Mr. J. P. Kenney, chemist and druggist, Stocksbridge, has, in a strenuous contest, been elected to a seat on the Stocksbridge Rural District Council.

Mrs. Gifford, wife of Mr. R. Lord Gifford, J.P., Ph.C., Blackburn, has been re-elected one of the joint secretaries of the Blackburn Women's Liberal Association.

Mr. J. Hertz, of Hertz & Co., Mincing Lane, London, E.C., is at present visiting Norway in connection with the forthcoming season's trade in Jensen's cod-liver oil.

Mr. R. Whiteley Brownlow, pharmacist, Melton Mowbray, has been elected Chairman of the Melton Mowbray Urban Council, of which he has been Vice-Chairman for the past four years.

Captain R. R. Coates has been released from the Army, and has returned to the representative staff of the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3.

Mr. R. Parry, chemist and druggist, Bettws-y-Coed (North Wales), who is eighty-one years of age, was returned at the head of the poll at the recent election for the Bettws-y-Coed Urban District Council.

Miss H. Robinson, chemist and druggist, dispenser to the Wolverhampton Union, has been appointed as care officer in connection with the administration of home assistance, and has vacated the dispensership.

Mr. H. J. Cook and Mr. T. H. Ford, who have been with Arthur Berton, Ltd., for a number of years as representatives and subsequently as directors, have resigned their positions and left the company's service.

Mr. Chas. H. Welton, chemist and druggist, Coventry, has been appointed a warden of Holy Trinity Church, Coventry. His father (Mr. Henry Welton, chemist and druggist) has been a member of the same vestry for over thirty years.

Mr. H. Wippell Gadd, who has been appointed Secretary of the Drug Club, is taking up his residence in London next month. After May 1 all communications to the Drug Club should be addressed to 8 Frederick's Place, Old Jewry, London, E.C.

Mr. Fred. E. Evans, chemist and druggist, Lymm, Cheshire (who has been Honorary Recruiting Officer and Secretary of the Soldiers' and Sailors' Families Association and the War Pensions Committee), was presented, at a recent gathering, with an engraved silver cigarette-case, as a token of esteem, by the returned soldiers of the district.

Mr. E. A. Webb, F.S.A., Ph.C. (a director of Evans Sons Lescher & Webb, Ltd.), contributed a letter to the *Times* of April 21 correcting a report in that paper to the effect that the Good Friday distribution of sixpences in the churchyard of St. Bartholomew the Great, Smithfield, London, dates from pre-Reformation times. Mr. Webb marshalls his evidence convincingly as follows:

> This I can vouch for, as I have made transcripts of all the medieval wills in which St. Bartholomew's is referred to. The tombstone of the benefactor or benefactress does not exist. The graveyard occupies the site of the nave of the church, and only dates from 1542. The earliest tombstone extant in the churchyard is 1770. There is no mention of the payment of these Good Friday doles in the churchwardens' accounts up to 1662. . . .

Mr. R. R. Bennett, B.Sc., F.I.C., who for five years has been on the staff of the British Drug Houses, Ltd., has been elected to a seat on the board of directors of that company. Mr. Bennett began his pharmaceutical distinctions by taking the silver Herbarium medal in 1899, and attended the School of Pharmacy of the Pharmaceutical Society in 1901 and 1902 sessions, distinguishing himself in botany, chemistry, and materia medica, and after passing the Major examination in April 1902 took the Society's bronze medal. He is B.Sc.Lond., F.I.C., and a barrister. He was pharmacist at University College Hospital before he joined the staff of The British Drug Houses, Ltd., in 1913, and was appointed a secretary of the British Pharmaceutical Conference in 1912, a position he still retains.

Wills.

Mr. Walter Colley, chemist and druggist, 151 and 153 Sherlock Street and 106 Varna Road, Edgbaston, who died on February 15, left property of the gross value of 9,211*l.* 9*s.* 11*d.*, of which 8,563*l.* 19*s.* 8*d.* is net personalty.

Mr. Thomas Jefferson, Ascham House, Whittlesford, Cambs, chairman of Gale & Co., Ltd., wholesale druggists, 15 Bouverie Street, London, E.C., who died December 21, left estate valued at 5,898*l.* 5*s.* 2*d.* gross, with net personalty 1,085*l.* 11*s.* 10*d.*

Mr. Arthur Earle, Childwall Lodge, Childwall, Liverpool, late of Earles & King, Ltd., oil merchants and seed crushers, Liverpool, who died on February 5, left a fortune of the value of 635,489*l.* 19*s.* 8*d.*, with net personalty 629,575*l.* 16*s.* 8*d.* Some bequests are made to local hospitals.

Society of Public Analysts.—The address of Dr. Samuel Rideal, the retiring President, which was delivered at the annual general meeting, contains a review of the effect of war regulations on the analytical control of food and drugs. A good part of the address deals with the conditions of drug standards as affected by the withdrawal from the British Pharmacopœia of glycerin preparations, syrups, and edible fats and oils.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," March 26, 1919.)

"Klektik" on clock-face device; for medicinal chemicals (3). By W. D. Drummond, 72 Cambridge Street, Glasgow. 387,042.

Diamond-shaped device, including picture of griffin; for cutch (4). By Ogilvy, Gillanders & Co., 9 Harrington Street, Liverpool. 386,275.

"Sorbo"; for surgical instruments, etc. (11), and for indiarubber goods, etc. (40). By Sorbo Rubber-Sponge Products, Ltd., Maybury Road, Woking. 386,613/618. (Associated.)

"Orbit"; for medical electrical batteries (11). By Orbit Electrical Co., Ltd., 2 Coleman Street, E.C. 2. 387,346. (Associated.)

"Mispa"; for infants' soothing and teething devices (11). By W. T. James, Pantglynhir Farm, Cross Inn S.O., Cardiganshire. 387,884. (Associated.)

"Vodette"; for photographic papers, etc. (39). By A. D. Shiels, Thornhill House, Wishaw. 387,774.

"Frenlite"; for food-substances (42). By J. W. French & Co., Ltd., 267 Bow Road, E. 3. 388,178.

"Hopcon"; for food-substances (42). By White, Tomkins & Courage, Ltd., 48 Mark Lane, E.C. 3. 388,282.

"Clinate"; for straw-cleaning preparations (47). By T. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C. 4. 387,789.

"Novola"; for toilet creams, etc. (48). By J. Angus, 9 Sedgemere Avenue, East Finchley, N. 2. 387,266.

"Jade"; for perfumery, etc. (48). By F. R. Brighten, 5 Loudoun Road, London, N.W. 8. 387,517.

"Adonis Hair Cream" and pictorial device; for hair cream (48). By W. H. Newman, 55 Cheapside, London, E.C. 1. 387,396.

"Shavets"; for water softeners (48). By The Western Dental Manufacturing Co. (1914), Ltd., 75 Queen's Road, Bristol. 387,856. (Associated.)

"Aloc"; for all goods (48). By G. M. Moncur, 25 St. John's Street, Perth. 388,163.

"Dominion" over facsimile signature ("Dominion" disclaimed); for polishes, etc. (50). By Anderson, Gibb & Wilson, 22 Black friars Street, Edinburgh. 387,815.

(From "The Trade-marks Journal," April 2, 1919.)

"Sankol"; for chemicals (1). By J. H. Sankey & Son, Ltd., Essex Wharf, Canning Town, E. 16. 387,754. (Associated.)

"Keating's Powder," etc., on label device including dome of St. Paul's Cathedral in circle; for insect-powder (2). By T. Keating, 50-52 Union Street, Southwark, S.E. 1. 386,367. (Associated.)

"Phœnix"; for goods (2). By Odams' Nitro-phosphate and Chemical Co., Ltd., 5 Mark Lane, London, E.C. 3. 387,149.

"Sis"; for chemicals (2) and for goods (47). By C. Thomas & Bros., Ltd., Broad Plain Soapworks, Bristol. 387,701/2. (Associated.)

"Croftol all British Manufacture" and device; for antiseptics, etc. (2), and for detergents (47). By The United Turkey Red Co., Ltd., 46 West George Street, Glasgow. 387,771/2. (Associated.)

Fleur de Lys device; for all goods (2). By N. Tailby, Spon Lane Mills, Houghton Street, West Bromwich. 388,424.

"Kramyzarine Brand a Pharmaceutical Product"; for a medicine (3). By Marthe J. Thibault, 81 Rue de Chézy, Neuilly, Paris. 384,144.

"Pastulet Brand Medicated Sweets"; for medicated sweets (3). By Wigglesworth, Ltd., Peel Street, Westhoughton, Lancs. 385,888.

"Wizwoz Brand Liniment," device of fantastic figure in kilt dancing "crutch dance"; for a liniment (3). By J. O. Hough, The Laboratory, Alcester Road, Studley, Warwickshire. 387,838, 388,081.

"The Essential Artificial Limb Co." on waving pennant device; for artificial limbs (11). By The Essential Artificial Limb Co., 24 South Molton Street, London, W. 1. 387,776.

"Vortos"; for medical syringes and parts (11). By A. L. Ostrov, Russell House, Middleton Street, Llandrindod Wells. 387,900.

"Challenge" with device including cock's head ("Challenge" disclaimed); for goods (42). By H. A. Lane & Co., Ltd., 59 Tooley Street, S.E. 1. 383,096.

"Ginora"; for food substances (42). By Jewsbury & Brown, Ardwick Green North, Ardwick, Manchester. 388,641.

"Victo"; for mineral-waters, etc. (44). By the Lonsdale Mineral Water Co., 56 Lonsdale Street, Belfast. 387,483.

"Sandora"; for all goods (48). By The Celesta Manufacturing Co., Ltd., 3 Lothbury, London, E.C. 2. 386,046. (Associated.)

"Compactoid"; for toilet goods (48). By Cuxson, Gerrard & Co., Ltd., 26 Fountain Lane, Oldbury. 387,430. (Associated.)

"Okos"; for toilet preparations (48). By W. L. Nundy, 35 Bath Street, Leamington Spa. 388,292.

"National"; for polishes, etc. (50). By National Chemical Works, Ltd., 2 Stanley Road, Acton, W. 3. 385,046.

"Ferret"; for brushes (50). By H. J. Pearson, 1 Petersham Mews, London, S.W. 7. 388,111.

(From "The Trade-marks Journal," April 9, 1919.)

"Konapro" in Russian and English with device; for chemicals (1), medicinal chemicals (3), food-substances (42), fermented liquors, etc. (43), and for perfumery, etc. (48). By Stafford Allen & Sons, Ltd., 7 Cowper Street, Finsbury, E.C. 2. 387,558/560/561/562/563. (Associated.)

Trade Notes.

American Proprietaries.—The American Drug Supply Co., 6 Northumberland Avenue, London, W.C. 2, give a list of American proprietary articles which are again in stock.

Sulphur Tablets.—Arthur H. Cox & Co., Ltd., Brighton, announce that owing to the increased quantity of sugar available they are able to offer sulphur tablets of pre-war composition.

Eucryl Toilet Preparations.—Particulars of a bonus offer in connection with Eucryl toilet preparations are given in the advertisement of Eucryl, Ltd., 61-63 Lant Street, Southwark, London, S.E. 1.

"Odds On" Oils is the name of a liniment for rheumatism, sciatica, sprains, etc., which is being advertised to the public by the "Odds On" Specifics Co., Ltd., 36-37 Cock Lane, London, E.C., whose advertisement appears in this issue.

Rajar Photographic Goods.—Rajar, Ltd., Mobberley, Cheshire, announce that the relaxation of war restrictions has enabled the company to resume its former activities. Rajar photographic papers can now be supplied from stock. Trade terms can be had on application.

"Allenburys" Malted Food No. 3.—Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C. 3, announce that the pre-war form of packing of "Allenburys" Malted Food No. 3 will be resumed shortly. Four sizes of tins will be issued at the retail prices 1*s.*, 6*d.*, 3*s.*, 7*s.* 6*d.*, and 15*s.*

Insurance Dispensing Records.—The proprietors of Glaxo, 155-7 Great Portland Street, London, W. 1, make an offer to panel chemists of N.H.I. dispensing-record cards, free of cost. The advertisement in this issue in which the announcement is made gives a reproduction of the card.

Orsal Mouth-wash, which has made a reputation as a preventive and cure of pyorrhœa, will in future be sold only in concentrated form in bottles retailing at 4*s.* 9*d.* each. The wholesale prices of the mouth-wash and dental paste are given in the company's announcement in this number.

"Standard" Retail-price List.—The April issue of the "Standard" retail-price list contains an announcement that the subscription is to be reduced to 7*s.* 6*d.* per annum owing to the increased popularity of the list. The present subscribers will be credited with the difference when their subscriptions expire, so that all will have the benefit of the reduction. The list is growing visibly. Mr. Chas. Philip, 23 High Street, Herne Bay, is the publisher.

"G. O." Lemonade-powder.—The Greenwich Lemonade Co., 209 Trafalgar Road, Greenwich, send us a sample of "G. O." concentrated lemonade-powder of their manufacture. The powder is packed to retail at 2*d.*, 3½*d.*, and 6½*d.*, the packets making respectively a quart, half a gallon, and gallon of sweetened lemonade by the addition of cold water. The flavour of the product is excellent, and when a spell of warm weather arrives "G. O." lemonade-powder should be a splendid seller.

"Mysto" Specialities.—W. T. French & Son, St. Mary Street, Ladywood, Birmingham, who specialise in agri-horticultural chemicals and sprays for agricultural, horticultural, and other purposes, send us particulars of their products. The "Mysto" knapsack sprayers are much in use by allotment users, Models No. 1 and No. 4 being those which agricultural chemists will find it advantageous to stock. The firm sell a variety of spraying powders for use as dry applications or in liquid form. The advertisement of Messrs. French in our last issue enumerates the chief kinds of spraying powders and insecticides. The sale of these goods is suitable for chemists in both town and country owing to the large growth in allotments, and now is the time for making up orders for stock.

Information Department.

INFORMATION WANTED.

129/46. "Dy-o-la" dyes: supplies
125/48. "Kirkwood" inhaler
125/73. "Diam" cream
119/69. Henry's aspirin tablets
130/72. "Milky Way" feeders
126/38. "Pepsodene" tooth paste
123/46. Rass. Cornu Cervi: supply

INFORMATION SUPPLIED.

"Aveeta" pen clips, 113/54
"Azol," 108/41
Benson's porous plasters, 122/10
"Carbolacene," 114/54
Celluloid, English and French makers, 87/40
"Collargol," 119/17
Confectioners' gelatin, 114/51
Cream of tartar, 114/51
Crême Simon (agents), 120/48
Cresol, 119/2
Glycolactophos, 83/66
"Gre-Solvent," 110/53

Observations and Reflections.

By Xrayser II.

Writing before the Conference

I make bold to say that it cannot possibly discuss in an adequate manner all even of the more important subjects on the agenda, however skilfully they may have been arranged. The fear is that the discussions themselves have been or will be arranged so skilfully as to lead to foregone conclusions on many points of importance. This has happened before, and while the Conference is largely controlled by the Pharmaceutical Council it is likely to happen again. I had understood that the question of organisation was to be postponed to another special Conference a month or so hence, and certainly this subject alone, unless it has been "arranged" very skilfully indeed, requires more discussion than is likely to be available at the present Conference.

The Supply of Medicines

in emergencies is a matter to which I fear a good many pharmacists do not attach sufficient importance, and at the risk of being thought a reactionary I must say that, desirable as short hours are, we shall go seriously wrong, both morally and as business men, if we do not provide fully and ungrudgingly for all the real needs of the public in this respect. The doctor does not (or should not) grumble when called from his well-earned rest at the close of a busy day by an urgent call, nor must we. We have indeed a right to urge on the doctor as strongly as we can the desirability of making his rounds as early in the day as possible, but until he shortens his hours we cannot, if we claim to be co-workers in his profession, reasonably refuse to dispense at once the medicines he marks as urgent. It is a very difficult position that we are in, but the more we insist on our professional status the more are we bound to regard it not merely as it affects our own convenience but from the point of view of public service. The rota seems to be the most satisfactory solution, and serious reproach will attach to us if we let any feeling of business jealousy prevent its adoption.

Mr. Sargeant at Leeds

made the illuminating remark that the Local Associations had not been asked to discuss the question of Industrial Councils because as yet there is nothing definite to discuss. I call this remark illuminating on account of the light it throws on the mind of Mr. Sargeant, and presumably of the Council. Anything more thoroughly undemocratic in spirit it would be impossible to say. Whitley Councils as foreshadowed in the Report are definite enough, surely; at least they are sufficiently so to be discussed by the Council, which, however, apparently thinks nothing worth discussing by the Associations but its own schemes. Why is the initiative always to lie with it? Why does it not desire to know the mind of the trade, as it only can know it by just such discussion of the question beforehand as the Associations should have been invited to engage in?

"The Drug Trade News"

is not a very happy name for the organ of the Amalgamated Society of Pharmacists, Drug and Chemical Workers, being too wide and not sufficiently distinctive in its signification, but judging from its first number the paper itself promises to serve its purpose, which is that of uniting the assistant workers of the drug trade, whether wholesale or retail, in a single trade union. I am in complete sympathy with this idea, and wish the Amalgamated Society success. The journal is to appear monthly. This first number is naturally somewhat tentative in character, but, though not particularly well written—it makes no pretence to literary distinction—it sets forth the objects of the Society in a businesslike and convincing manner. The fact that some of these objects cannot be realised without what will amount almost to a revolution in the retail trade at least, is nothing against them if the objects are themselves good. Our craft has been "bound in shallows and in miseries" long enough, and even a revolution should be welcomed if it promises an amendment of our lot. The economic question, the question of wages, is the dominant one with the Society, and it is certain that such a minimum wage as is demanded is impossible under present conditions; the profits of the business will not allow of it. The demand is not otherwise unreasonable, but it can only be met by a drastic revision of our charges to the public or an immense increase in the trade we do. The former is the more likely solution of the difficulty, and it may be that we shall owe our escape from the petty-mongering conditions of the past to this new movement.

Your Correspondent "L"

is so perversely wrong in most of the particulars in which a plain man who makes no pretence of learning can follow him, that his excursions into the obscurer regions of philology may fairly be regarded as negligible. He speaks of my very mild remarks on his former letter as an "attack" upon him, he turns my "supposedly from the Greek" into a "dogmatic assertion," and says that I uphold the O.E.D. as a "philological fetish," whereas I qualified my reference to it by the words, "if we may trust" it. It is true that the Dictionary "does not profess to be a philological text-book," but it does profess to give the "meaning, origin, and history" of the words it treats of, their "Derivation or Etymology, showing the actual origin of the word, when ascertained," and it professedly embodies the very latest information on these points. Seeing that it does this under the direction and with the actual co-operation of some of the most accomplished scholars in the country, I must continue to prefer its authority to that of your anonymous correspondent. As regards the word in dispute, it does not speak dogmatically, but it fully bears out all that either you or I have said on the subject. As for *Khem*, I merely gave in passing the interpretation commonly accepted; whatever it means, "L" agrees that it was a name given to an Egyptian province, and that was the whole point of my remarks.

Cramp-rings

used, as the newspapers have not failed to remind us, to be consecrated by our sovereigns in Westminster Abbey on Good Friday (on which day this note is written) at a service the office for which was included in our Prayer Book until the time of Edward VI. Wootton, who has a long and interesting account of these rings, says the office was in use until the reign of Queen Anne, but it was omitted from our authorised Book in 1549; nor does it appear in King Edward's Second Book, or in that of Queen Elizabeth. Nares says, however, that it was apparently "revived" in 1694, this date being appended to a copy of the office printed in 1789 by the antiquary Ducarel. The rings were worn against epilepsy and other diseases as well as against cramp, and were frequently ornamented with gold and silver, an agate being, however, as appears from many allusions in literature, the favourite addition to the substance of the ring. This was not always, as would appear from Wootton's account, of metal; the tusk of the morse or sea-horse was much used for this as for other medicinal purposes; even "the Bristles upon his Cheeks" were, according to one writer at least, twisted into rings, as being, like the tusk, able "to resist Poison and other malignant Diseases." It is a little uncertain how the custom of wearing such rings for this specific purpose originated, and Camden's picturesque account of the ring given to Edward the Confessor as a present from St. John is more than a little discounted by his derivation of the place-name Havering (where the presentation is said to have taken place) from the words "have the ring." Wootton is quite right in saying that the superstition attaching to these rings survived almost to our own time—indeed, he might have gone a little further; it is not altogether dead yet, as I happen to know, though it takes a slightly different form.

"SANITAS"
NON-POISONOUS
DISINFECTANTS
FLUIDS, POWDER, SOAPS & APPLIANCES
Should be stocked by all Chemists.
THE "SANITAS" CO., Ltd., LIMEHOUSE, LONDON, E. 14

S.V.R. — S.V.M.
AND
CHEMISTS' WINES,
Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd., LAMBETH, S.E. 11.

PATENTS AND TRADE MARKS.
There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.
56 Ludgate Hill, London, E.C. 4. REGINALD W. BARKER.

Essential Oils
AND
Aromatic Chemicals
W. NAUMANN, 40 Charterhouse Sq., London, E.C. 1.

Fletchers' Concentrated Liquors
produce Tinctures, Infusions and Syrups which can be always relied upon to respond to the recognised standards for these preparations.

Editorial Articles.

The Resources of the East.

When the victory of the Allies is completed, steps will, no doubt, have been taken by the British Government to see that Germany is never again in a position to exploit the resources of the British Empire, as she did prior to 1914, to her own advantage and to the detriment of British subjects. For many years after the restoration of peace we shall require for ourselves the bulk of what we produce, and the wants of our Allies should then be our first thought. The German people will then be taught a lesson they have been badly in need of since 1870, not only that war must always be a losing business, even to the nation which gains the day, but that autocratic government is an unnatural state of things in the twentieth century, and one under which the people can never attain that degree of prosperity which the majority of a nation under freer rule are often able to obtain. It is all the more surprising that Germany should have been so backward in this respect, for opportunities of learning were placed within the reach of most of her people, and probably a larger number of men there had received some scientific training proportionately to any other European nation. It tends to prove that without freedom there can be no real progress, and Germany before long will probably come to the same opinion. It is a pity that it should require the loss of millions of lives and the misery of many millions more to learn what England learnt many centuries ago. There will be an enormous field open in our Indian Empire after the war, and Burma, in the south-eastern portion of it, will offer a field to those with a knowledge of chemistry and botany. The field is practically a virgin one, for, although British rule has existed for almost a century in some parts of Burma, and for from thirty to sixty-six years in other portions, very little has been done in the way of examining its resources, or extracting from its soil the wealth which undoubtedly lies hidden there. Dyeing, the art of colouring textile and other materials effectively so that the colours will not be easily removed, dates from prehistoric times, and has been practised in India and China during a long succession of ages. We can well believe the story of the loss of the secret of the Tyrian dye in early times, for a correspondent in Burma tells us that the same thing has happened in that province, and that he came across a family of dyers before the war who had forgotten the vegetable dyes their parents always used prior to the introduction of the coal-tar colours, which were brought in something like fifty years ago to Burma. These were sold at such low rates that no one thought it worth while to go to the trouble of procuring and using natural dyes. The Burmese say that the old vegetable products used for dyeing gave faster colours; but with the great advances that have been made in recent years many of the objections to coal-tar colours have been removed, and their improvement and varied properties and hues have now made them, when their small cost is considered, more suitable for all purposes, and it is not improbable that in future their use may become universal. As yet the Burmese make an exception in dyeing the garments used by Buddhist priests. These have to be dyed yellow, and this can only be done by using the wood of the jack-tree (*Artocarpus integrifolia*), as is said to have been the practice in the time of Gautama, the founder of Buddhism, some twenty-five centuries ago. No innovation is likely to take place here, nor is there any necessity for it, as the jack-tree grows well in nearly every part of the province, and gives the necessary colour as economically perhaps as any imported dye would. An experienced chemist and botanist, with a knowledge also of drugs, might make some valuable discoveries by exploring the forests of Burma. In the matter of dyes perhaps he would find nothing that could compete successfully with coal-tar colours in price; but in medicinal agents he might come across something of value. It is not creditable to British administration that we should have been so long here, and yet be suffering from all the evils of what is very nearly a paper famine in the British Isles. Forty years ago Mr. W. Routledge produced excellent paper from pulp made of bamboos from Burma. There are hundreds of square miles of bamboo forests there, besides grass of several varieties out of which paper could be made. Yet nothing has been done as yet to utilise all this wealth, and paper in Burma is now about six times the price it was prior to 1913. Whatever the amount of knowledge he possessed, no one should think of going to explore Burma forests unless he can support himself for at least two years at a cost which might be put down at 20*l.* a month. It is not a good place for a white man, without local experience, to be stranded in. But a young explorer of good constitution and temperate habits, and the necessary knowledge, might have a very enjoyable time, and might possibly make some valuable discoveries. The Burmese and Karens, who are those mostly met with in the province, are exceedingly hospitable. They are without that caste which makes Indians so exclusive and sometimes difficult for Europeans to get on with. The climate is warm for about eight months in the year in the plains, but there are hills which are accessible from most parts, and where three blankets during most of the year are necessary to keep one warm. Parts of the country are malarial and unhealthy for two or three months of the year. But with care fever can generally be avoided, and there are seaside resorts and towns like Rangoon and Moulmein which are as healthy as most of the large cities of Europe. In

pre-war days one could travel from Rangoon to London with the mails in about nineteen days. It takes a good deal longer now, but when peace is established the time will probably be much shortened.

Dental Chemists' Position.

A Special Meeting of the Representative Board of the British Dental Association recently discussed the report of the Dentists Act Committee and passed a number of resolutions, which it was suggested should be incorporated in any Bill drawn up as a result of the recommendations of the report. According to the report of the meeting in the "British Dental Journal" the paragraph dealing with dental chemists did not provoke any discussion. This is the recommendation of the Committee that after five years a dental chemist must give up one of his businesses. The Chairman of the meeting said that "in this way they got rid of the dual personality," but no explanation was given as to why it is proposed to treat chemists so unjustly. We have had letters from some in the trade who think that we in the drug-trade should welcome the findings of the Dentists Act Committee as the dental profession is in a similar position to what pharmacy was in when the Pharmacy Act, 1868, became law. This is quite an erroneous view. The Dentists Act, 1878, ensured the registration of all persons carrying on a dental business at that time, reserving for them the title "dentist," so that the public could discriminate between registered and unregistered practitioners. The Act did not prevent the practice of dentistry any more than the Pharmacy Act, 1868, prevented the practice of pharmacy by unregistered persons. The Dentists Act Committee propose to take away the right which every British citizen has at present of practising dentistry. Chemists who have a dental practice are in common with other persons in a similar position to be registered as dentists on account of their vested rights, but it is proposed that the concession be accompanied by the extraordinary condition that within five years chemists must either give up pharmacy or dentistry. As we have said before, we do not think that such a preposterous arrangement will receive the consent of the House of Commons, but it will be necessary to guard against a Bill embodying this recommendation being rushed through Parliament. Others of our correspondents compare the position in dentistry to-day with that of company chemists before the passing of the Poisons and Pharmacy Act, 1908, but this is another misapprehension. The privileges of company chemists grew up owing to a judicial interpretation of the Pharmacy Act, 1868, and to the long delay of the Pharmaceutical Society in devising a remedy for the anomaly which the legal decision revealed. The practice of dentistry has never been a closed profession any more than has the practice of medicine. The doctors have, however, recently been given the monopoly in the treatment of venereal disease, but, with this exception, the treatment of disease is open to anyone. Reverting to the meeting of the British Dental Association, we note that a time limit of a year is suggested for the liquidation of companies carrying on dental practice, and that after that time the practice of dentistry by companies should be prohibited altogether. The meeting also agreed that the names of unregistered persons to be added to the Register should be placed in a separate section of the Register, and that the persons so registered shall have been engaged in *bona-fide practice*, as British subjects in the United Kingdom, for five years subsequent to having attained the age of twenty-one years. It is also proposed to endeavour to obtain the reservation of the title "dental surgeon" to practitioners holding dental diplomas or degrees. If the suggested prohibition of dental practice is obtained it will be a stronger measure of protection than has yet been obtained in any other country. The interesting point was mentioned that medical men may not practise dentistry in the United States, which is a striking contrast to the liberty given to medical men in this country, who can practise dentistry or act as chemists without any special knowledge of these subjects. One of the members of the Dentists Act Committee has stated that the Committee was most favourable to the dental profession, and was most desirous of helping it. There is a possibility, therefore, that the House of Commons will take a more unprejudiced view of the matter and not allow free rein to the desire of the dental profession to penalise chemists. Moreover, the influence in Parliament of unregistered dental practitioners is believed to be considerable, and a Dentists Act Amendment Bill would have to face the opposition of the Associations, which are ready to defend the privileges of chemists and other unregistered persons.

Proof-spirit Calculations.

There appears to be considerable confusion amongst pharmacists—especially those concerned with the manufacture and export of galenicals—as to the Excise "proof gallon" and its use in calculating the amount of drawback. Like the weights and measures of the United Kingdom, the "proof gallon" is essentially British, and answered its purpose when scientific data and absolute alcohol were matters in dispute. The unvarying "proof gallon" was a tremendous advance on the old alchemist's method of "proofing" spirit—viz., firing a mixture of alcohol and gunpowder, the deflagration going off with a "poof." The legal "proof gallon" is a mixture of absolute alcohol and distilled water, practically consisting of nearly equal weights of alcohol and water. The Act of Parliament 58 Geo. 3, c. 28 (1818) defined "proof spirit to be such as shall at the temperature of 51° F. weigh exactly 12-13th parts of an equal measure of distilled water." Dividing 12 by 13 the decimal 0.92308 represents the specific gravity of proof spirit, or, in other words, the "proof gallon" weighs 9.2308 lb. at 51° F. Pharmacists will note that their calculations refer to volume and not weight, and the Excise tables of Sikes are based on volume percentages. By volume the "proof gallon" consists roughly of 57 of alcohol and 46 of water, the two contracting when mixed to 100 volumes. To those mathematically inclined, Drinkwater's experiment, in 1847 establishing proportions by weight and volume will be of interest. This Excise official took 100 volumes of absolute alcohol (sp. gr. 0.79381) and added 81.82 volumes of water, and obtained not 181.82 volumes, but 175.25 volumes of proof spirit owing to contraction. These figures will go a long way to demonstrate the technicality of "proof spirit." They deserve to be carefully annotated, for it will at once be seen that 100 volumes of absolute alcohol can make no more than 175.25 volumes of proof spirit—*i.e.*, 75.25 per cent. over proof. To-day the Excise regard 74 per cent. over proof and upwards (written as "o.p.") as absolute alcohol, but no stronger spirit can exist than 75.25 o.p., because it contains 100 per cent. of absolute alcohol. To grasp this fact is to understand the Excise system of spirit assaying and calculation. If rectified spirit is 75.25 o.p., the number of proof gallons is 175.25. 60 o.p. will produce 160 proof gallons; 40 o.p. 140 proof gallons, and so on. Hence the addition of 100 to the number of degrees "over proof" brings the quantity to "proof gallons." Suppose the strength is under the 100—u.p. instead of o.p.—1 u.p. would represent 99 proof gallons, 5 u.p. 95 proof gallons. Whisky at 20 u.p. means that 100 gallons of such spirit would only produce 80 proof gallons. Hence the rule for o.p., add 100; for u.p., deduct from 100. A claret of "12 degrees" means 12 per cent. of proof spirit—*i.e.*, 88 u.p. in spirit assaying. A beer containing 10 per cent. of proof spirit means that, if distilled, 100 gallons of that beer would produce 10 gallons of proof spirit—*i.e.*, 90 u.p. in spirit assaying. The duty of a pharmacist in calculating his rebate is first of all to ascertain the strength and either add 100 or subtract from 100 to find the "proof gallon." The rest is simply rule of three. For example, assume a package to consist of 88.275 bulk gallons at 15.4 o.p. Required to know the Excise proof gallons :—15.4 + 100 = 115.4 proof strength. Multiply this 115.4 by 88.275 and divide by 100. Answer, 101.869 proof gallons. Suppose there has to be a deduction of 4.5 degrees per cent. of proof spirit, 88.275 at $\frac{4.5}{100}$ =3.972 to be deducted from the above 101.869 proof gallons. An addition to the proof gallons of 3 per cent. needs no mathematical

demonstration. The Excise authorities concede three decimals to make the rebate more for the exporter. To ascertain the strength Sikes's hydrometer and tables are necessary.

Making Soft Soap.

Some complaints have reached us regarding difficulties that have been experienced in making satisfactory preparations which contain soft soap as an ingredient. We believe that this is indirectly connected with the scarcity of potash, which has been one of the results of the war, as we depended mainly upon supplies from enemy countries. It is possible that substitute soft soap, in which potash is absent, has been used, and this would account for failures to produce good emulsions. The subject was recently referred to in the "Leather Trades Review," soft soap being employed in considerable quantity in leather dressing. It is stated that there are many so-called soft soaps on the market which do not appear to contain either potash or glycerin, most of them being merely soda soaps with a higher proportion of water. The absence of glycerin is accounted for by the necessity during the war of obtaining as much glycerin as possible for munition purposes. By the modern method of making soap the oils and fats are first hydrolysed, thus permitting a separation of the glycerin from the fatty acids, which are then mixed with the necessary amount of alkali to furnish soap. There is every reason to believe that soft soap will soon be available of pre-war composition, but the scarcity of caustic potash will enhance the price. The following recipe for soft soap, which was given some years ago in The Chemist and Druggist, is reprinted for the benefit of our readers who wish to make their own soft soap. The manufacture is a simple operation, which a chemist would have no difficulty in carrying out:

Dissolve 20 lb. of caustic potash in 3½ gals. of water; when cold pour the solution, in a thin stream and slowly, into 8¾ gals. of cottonseed oil, stirring with a wooden stirrer 3 in. broad. Stir gently until the potash and oil have combined and the mixture has the appearance of honey. Cover and set aside in a warm place until next day, then stir gently but well, and set aside for several days.

The product is for home use; it is too stiff for sale, but if that is desired mix with it a third of its weight of water, aiding the process by heat, but the mixture should not be boiled. Instead of cottonseed oil 75 lb. of tallow or grease (*e.g.*, kitchen waste) may be used. The quantities of the ingredients given can be reduced or increased.

The Lady Chemist.

This is the subject of an article, obviously inspired by Miss Buchanan, in the "Daily News" of April 15. It sets forth in an attractive manner the advantages of the chemist's business and its suitability to women, and states briefly the means by which they may qualify for it and the qualities it demands. Miss Buchanan herself is mentioned as an example of a successful lady pharmacist, and we are told that already there are more than 200 fully qualified women chemists in Great Britain. It may be pretty confidently anticipated that such an article, so sponsored, will have the result of a considerable increase in the number of female students of pharmacy, and the fact that at the last examination for the Minor in Edinburgh ten out of the nineteen successes were scored by women is a sufficient indication of what we must expect in the not distant future: the grey mare seems likely to prove the better horse, so far as our craft is concerned. We do not suppose this will really happen. We believe there is room in pharmacy for both the sexes, and that they will run side by side (possibly with some differentiation of function) with mutual advantage and good will. The immediate gain in the number of assistants at our service is undoubted, and it may happen that these new recruits will prove necessary to the maintenance of the craft on a scale commensurate with the needs of the public. Before the war the trade had shown signs of becoming less and less attractive to men, and there is little reason to suppose that it will be more so now. We shall always be unable to rival other traders in many respects, such as short hours, large profits, and opportunities of expansion and the exercise of exceptional business ability. Probably the drug-trade will always be a calling that offers less scope than most commercial careers for those possessed of the forceful and ambitious characters that we regard as distinctively masculine. There is, by the way, one rather puzzling statement in the article we refer to: the pharmaceutical chemist *is* a "privileged person" in being exempt from jury service, but what are the "many things he can do which the ordinary chemist and druggist cannot"?

White Horehound.

In the March number of the "American Journal of Pharmacy" Dr. H. W. Younghen directs attention to a new adulterant of white horehound (*Marrubium vulgare*, Linn.), which was detected in the herb shipped to Philadelphia from a Greek port. The adulterant is referred to *Ballota hirsuta*, Benth., a species extending eastward from Spain to Greece. It was recognised by the character of the calyx, which is represented as having ten somewhat triangular acute teeth and is densely hairy, whilst that of *Marrubium vulgare* has ten awlshaped recurved teeth. There is no doubt the calyx is not that of *Marrubium vulgare*, but there must be some mistake in referring it to *Ballota*, which has five, not ten, teeth. In any case, the finding of this adulteration shows the unsatisfactory character of the collection of wild plants. A few years ago horehound was met with in American commerce largely composed of *Marrubium candidissimum*, Linn., which bears a strong resemblance to *Marrubium vulgare*, but the calyx teeth are only five in number and are not hooked at the tips, and the plant is less aromatic and less bitter. These adulterations would not be likely to take place with the cultivated plant. White horehound is cultivated in this country, but not to the extent required, and has to be imported from the Continent, at a lower price but of inferior quality. There is a large market for it in America, one American buyer taking ten tons at a time. It is also largely used in this country in the preparation of the herb beer so extensively sold in the Midland and North manufacturing counties, besides being used as a pectoral for coughs and in horehound candy. The plant grows quite easily and is readily propagated in this country, especially in a chalky or calcareous soil, and it seems absurd that a large American demand should not be met by this country, instead of the herb being brought at heavy freight cost from Greece. The strict inspection that drugs undergo in the United States should render it cheaper in the long run to obtain the pure cultivated herb from this country if herb-growing received the support here that it does in Continental countries. An account of what is done on the Continent is given in the "Land Agents' Society's Journal" for March 1918, which is worth reading by Government officers of the Horticultural Branch of the Department of Agriculture, who by applying for information to the wrong sources have apparently come to the conclusion that the interest in medicinal-plant growing taken by almost every other European country is not worthy of attention in Great Britain.

A Nitrate Combine in Germany.—A telegram to the "Frankfurter Zeitung" states that as the National Assembly has rejected a proposal to create a nitrate monopoly, a syndicate of German producers of nitrates has been formed under the auspices of the Government. The State, which has invested heavily in the industry, will have a majority in the directorate of the syndicate. It is proposed also to form a union of consumers.

Rabies Order.—The "London Gazette" published an Order requiring the muzzling in public places of all dogs in the London area as from April 23. This has produced a number of paragraphs in the daily papers giving advice as to what to do in case of bites from animals suspected to be affected by rabies. The "Daily Express" mentioned that anyone who is bitten by a dog should ask the nearest chemist to cauterise the wound with lunar caustic. Next day a correspondent of that journal stated that when he applied to a chemist for the purpose of having a wound cauterised the chemist curtly referred him to a doctor.

The Scope of Pharmaceutical Chemistry.

The tendency in this country at present is for professional chemists to belittle the work which chemists in pharmacy are engaged upon. In the United States, however, it is recognised that drug chemists are occupied upon a diversity of problems unequalled by those of any other workers in chemical science. An interesting statement of the scope of pharmaceutical chemistry was published recently in the American "Journal of Industrial and Engineering Chemistry," by Mr. Frank O. Taylor, this having formed part of an address delivered before the Detroit Section of the American Chemical Society. Mr. Taylor said:

I wish to direct your attention to pharmaceutical chemistry in its broadest sense as being the chemistry of medicinal substances, pertaining to their origin, preparation, dispensing, and effects, and the remarkable and varied ramifications of these subdivisions. Far from being a limited and somewhat isolated division of chemical science there is no other branch of chemistry that needs for the solution of its diverse problems so many otherwise distantly related portions of chemical knowledge.

The metallurgist, who from the iron ore of Northern Michigan produces by reactions in blast-furnace and Bessemer converter iron and steel of varied composition; or from the scarlet cinnabar of Southern California wins the mercury for use in physical instruments and amalgams; or from the ores of Missouri obtains in giant smelters the zinc for innumerable industrial uses, may often forget that iron is intimately associated with vital processes as in the red blood corpuscles, and plays an important *rôle* as a curative agent; that the mercury salts are used in combating some of the most deadly and insidious diseases, or as highly effective germicides and antiseptics; that the zinc in one form may be intensely escharotic and in another may be the basis of mild and healing ointments of wide use.

The agricultural chemist, who makes two blades of grass or ears of wheat grow where only one grew before, may also develop digitalis or belladonna or hydrastis or cannabis in greater abundance or of higher potency.

The glass chemist may have his skill taxed to produce ampoules of glass free from excess alkali and easily workable in a blow-pipe flame or free from soluble iron salts that rapidly decompose such substances as hydrogen peroxide or adrenalin.

The coal-tar industry contributes from its cruder products the so-called "dead oils" as a basis for disinfectants of considerable potency; pure cresylic acids, to make antiseptics for surgical or general use; and phenol for use as such or in various compounds such as phenyl salicylate (salol) or the phenolsulphonates of zinc and calcium.

The dye chemist furnishes for medicinal use such things as phenolphthalein, so widely employed as a laxative; phenolsulphonaphthalein as a test for activity of the kidneys; scarlet-red for stimulating healthy and rapid growth of skin over surfaces denuded by burns or other accidents; acriflavine, but recently recommended in solution as a surgical dressing for extensive wounds, to be used in a manner similar to the sodium hypochlorite solution known as Dakin's Solution, being destructive to bacteria in high dilution and apparently harmless to living tissues; malachite green, proposed and widely experimented with for the same purposes; or methylene blue, so extensively used in certain types of urethritis.

Physical chemistry lends its aid in the production of such remedial agents as colloidal solutions of silver, mercury, sulphur, etc., obtained either by direct electrolytic action or in the presence of proteins, and adds to our slowly acquired empirical knowledge of emulsions an understanding of the reasons why, and the conditions under which the best results may be obtained.

Radiochemistry finds its pharmaceutical application in the use of ultra-violet rays for sterilising water or various solutions, or the employment of radium salts and radioactive solutions in the treatment of various diseases, notably cancer.

The petroleum industry gives to the pharmaceutical chemist solid and liquid petrolatum of varying degrees of purity ranging from cruder petrolatum for veterinary ointments to the most highly purified liquid oil intended for human use as an intestinal lubricant, and paraffin as an ingredient of ointments or a base of surgical dressings for application to extensive superficial wounds or burns.

The consideration of oils and fats, both vegetable and animal, applied one way or another to medicinal use, opens up another wide range through which our chemical investigations may lead us, including such things as the familiar castor and cod liver oils; the intensely active cathartic, crotou oil; that relic of old-time pharmacy, citrine ointment, made from lard, nitric acid, and mercury by a process similar to the familiar elaidin test for olive oil; the comparatively little known chaulmoogra oil, which has been used with some measure of success in the treatment of leprosy in India and our own Southern States, and was some years ago the subject of extensive chemical investigation; oil of chenopodium or American wormseed, used first as an ordinary anthelmintic and more recently as a highly successful agent in destroying the hookworm, the bane of existence to so many thousands of people in warmer climates; and a great array of other fixed and volatile oils. And these things suggest at once a multitude of gums and resins of more or less interest medicinally, but which we will pass by.

In that limitless domain to which we refer in general as "organic chemistry," including therein those things particularly connected with physiological and biological chemistry, there exists a tremendous number of substances of great interest to the pharmaceutical chemist, and there lie before him untouched fields for investigation that almost stagger the imagination. In this category appear substances of natural origin and of synthetic production—the alkaloids of aconite, opium, belladonna, stramonium, ergot, nux vomica; the comparatively innocuous glucosides of cascara or the highly toxic ones from strophanthus and digitalis; the digestive ferments such as pepsin, diastase, pancreatin; the endocrine glands and their derivatives, such as the suprarenal, whence comes adrenalin, so marvellously potent in its effects on the blood pressure that one-twentieth of a milligram will show pronounced effects on a man; the thyroid, from which but recently an active iodine-bearing substance has been isolated; the pituitary gland, of inestimable value in obstetrical practice and in the treatment of surgical shock; and others still less understood. Then we have that formidable and continually increasing array of synthetic substances, some of which, like acetylsalicylic acid (aspirin), or acetphenetidin (phenacetin), are part of the equipment of almost every household medicine cabinet, and others that you and I never heard of and probably never will.

These brief citations give some idea of the infinite variety of work presented to the chemist who deals with medicinal products, but do not give any adequate conception of the great number of unsolved and abstruse problems which still lie before us. You can at least see that the chemical knowledge of the man who has to do with pharmaceutical problems in their fulness must be extensive, and that he will certainly have no monotonous existence.

Mr. Taylor then gave specific instances of the problems which have to be solved by the pharmaceutical chemist. Among the cases were the following: The cause of the development of carbon dioxide in a sterile beef and iron wine; the reason why the proportion of breakage is greater in ampoules containing cacodylates; the evolution of hydrochloric acid in compressed tablets of mercuric chloride; the preparation of perfectly clear solutions from chemicals such as sodium chloride or alkaloids; the composition of glass used to contain alkaloidal solutions; the reason for the differences between natural and synthetic adrenalin; the determination of the medicinal activity of aconite preparations; the synthesis of alkaloids; the investigation of enzymes and vitamines.

Disclosing Poisons in Proprietaries.—The "Board of Trade Journal" states that the Straits Settlements Sale of Food and Drugs (Further Amendment) Ordinance, 1919 (No. 2 of 1919), which amends the Sale of Food and Drugs Ordinance, 1914 (Ordinance No. 15 of 1914), makes further provision for procuring samples of milk for the purpose of analysis, and, upon the request, or with the consent of the purchaser or consignee, at the place of delivery, for procuring any sample of any other article of food in course of delivery to the purchaser or consignee. Section 27 of the original Ordinance has been amended as follows:

27. (1) The Governor in Council may make Regulations for any of the following purposes:

(h) "To prohibit the sale, *advertisement for sale, or importation* of specified articles which are either dangerous or unsuitable as articles of food or medicine." (The italicised words are new.)

The following paragraph has been added to this section:

(ia) "to require all poisons contained in any medicine, proprietary, secret, or otherwise, to be disclosed in the prescribed manner and form, and with the prescribed particulars at or prior to the sale thereof."

"Poison" means any article deemed to be a poison within the meaning of the Poisons Ordinance, 1905.

Pharmaceutical Society of Great Britain.

Conference of Local Association Delegates.

Whether it was to appraise the few lingering traces of the eighteenth century in Queen Square, Bloomsbury, or whether to study the acoustics of the very modern Examination Hall of the Conjoint Board, or whether to get to business, we cannot say; but, whatever the motive, the local Association delegates made their appearance on the morning of April 23 with more than average punctuality. No time was lost in tackling the agenda, and the copious use of tobacco appeared to assist the oratory of some and the labours of others who had only "thinking parts." The following is the list of delegates:

Barrow: F. J. Sansom.
Bath: W. G. Hallett.
Bedfordshire: F. Perkins.
Birmingham: H. O. Lloyd, W. H. Whittock, and F. Smith.
Blackpool: D. J. Bailey.
Bournemouth: W. A. Bingham.
Bradford: A. Bainton and J. H. Shackleton.
Brighton: Edgar Jones.
Bucks: A. G. Wright.
Burnley: F. P. Pick.
Burton-on-Trent: Wilfrid Lean.
Bury: R. W. Taylor.
Cambridgeshire: B. S. Campkin.
Cardiff: A. S. Johnson.
Carlisle: T. M. Ridley.
Carmarthenshire: Evan Evans and A. Ivor Jones.
Carnarvonshire: W. A. Roberts and W. G. Roberts.
Cheshire: J. Cumming and H. W. Wallis
Chester: J. H. Hopley.
Cornwall: H. H. Cannon and W. T. Hall.
Cumberland: T. W. Townley.
Denbighshire: J. W. Adamson and J. E. Jones.
Derby: H. G. Toy.
Derbyshire: W. S. Wain and F. J. Hitchcock.
Devonshire: D. A. Evans and H. Wippell Gadd.
Dewsbury: N. Pickard.
Dorset: H. Ayre.
Durham: W. Forster and T. H. Cheetham.
Eastbourne: D. Marchant.
Essex: T. England and C. Goode.
Exeter: E. Lemmon.
Gateshead: J. Manners.
Glamorgan: A. Griffiths and G. I. Williams.
Gloucester: W. H. Hampton.
Gloucestershire: W. H. Hill and T. B. Wickham.
Grimsby: C. Dewing.
Halifax: P. W. Swire.
Hampshire: F. B. Wride and C. H. Baker.
Hastings: H. C. Edwards.
Herefordshire: G. Donaldson.
Hull: A. Richardson and J. J. Spilman.
Ipswich: J. A. Symonds.
Isle of Wight: H. J. Sadler.
Kent: A. E. Hobbs, D. T. Evans, and J. E. French.
Lancashire: A. Peake, A. L. Crabtree, and W. I. Scholes.
Leeds: N. N. Armitage and E. E. Haslegrave.
Leicestershire: W. T. Hind and A. E. Young.
Lincoln: J. Hague.
Lincs (Holland): E. A. Osborne.
Liverpool: D. H. Evans and J. L. Hirst.
London: G. B. Barnard, G. A. Tocher, and E. Skues.
Manchester: J. H. Nidd and A. Hershberg.
Merthyr Tydfil: V. A. Wills.
Middlesbrough: A. Enock.
Middlesex: H. E. Clement, E. F. Strickland, and J. Humphrey.
Monmouthshire: W. Parry Williams and B. Thomas.
Newcastle-on-Tyne: T. H. Flemming and S. W. Bowness.
Newport: B. Harries.
Norfolk: R. M. Ling and F. T. Alpe.
Norwich: P. Robinson.
Nottingham: A. E. Beilby and C. E. Reynolds.
Notts County: C. C. H. Cadge and R. E. Naylor.
Northumberland: G. Cormack and G. Rae Patterson.
Oldham: F. W. Lomax.
Oxford: A. E. Fox.
Oxfordshire: H. C. Goodall.
Pembrokeshire: B. Pugh Davies.
Plymouth: R. F. Roper.
Portsmouth: W. R. Atterbury.
Preston: F. Hindle.
Reading: F. W. Vasey.
Rochdale: J. Kershaw.
Rotherham: J. H. Turner.
Salford: E. H. Simmons.
Sheffield: A. H. Culverhouse and H. Antcliffe.
Shropshire: J. B. Gouldbourne.
Smethwick: H. M. Tranmer.
Somerset County: G. W. Hodder and F. Orchard.
Southampton: H. Ferryman.
Southend-on-Sea: S. F. Body.
South Shields: E. Michelson.
Staffordshire: C. H. Trotter and W. F. Fowke.
Stoke-on-Trent: E. Jones.
Sunderland: E. R. Cherrett.
Surrey: W. Bowden and W. H. Fowler.
Sussex, East: E. H. Farr.
Sussex, West: E. Brooke.
Swansea: J. S. Gilbert.
Tynemouth: H. S. Williamson.
Wakefield: J. Judge.
Wallasey: R. G. Govier.
Walsall: H. E. Belsher.
Warrington: J. S. Hill.
Warwickshire: W. L. Nundy and C. Davis.
West Ham: A. Catto and W. Potter.
Wigan: T. H. Winstanley.
Wiltshire: E. J. Hughes and A. C. Allen.
Yarmouth, Great: A. E. Richmond.
York: F. G. Hines.
Yorks, East Riding: P. Hawkins.
Yorks, North Riding: G. Whitfield and W. A. Senior.
Yorks, West Riding: A. R. Briggs, H. W. Stiles, and R. Broadhead.

Separate desks were provided for each of the delegates, and Mr. W. L. Currie, President, was supported by Councillors, members of the Local Associations Executive, and the Society's officials.

The first subject before the Conference was a resolution "that the report of the Organisation Committee be received," to which a series of resolutions were attached dealing with various phases of the question of organisation. The first of the series related to the

Election of the Council,

the following being the resolution as carried after considerable discussion:

That the Conference approve of the suggested scheme for electing the Council, regarding it as a forerunner of a more complete change in the organisation of the Society and of local Associations.

And that, *inter alia*, powers be sought by legislation for altering the basis of representation for the Council.

Election of the L.A.E.

The question next debated was in regard to the method of electing the Local Associations Executive Committee. The original resolution was as follows:

That the Local Associations Executive Committee be elected on the principle recommended by the Organisation Committee.

Other resolutions suggested variations in the method of representation; and the question of giving company pharmacies adequate representation on the Committee led to much discussion and an explanation by the Secretary, who pointed out that if multiple shops were not represented they could claim to go before Government Departments as a separate body. The only addendum to the above resolution which obtained the acceptance of the meeting was the following:

But that all Councillors of the Society should be placed in the same position as other pharmacists and not elected to the L.A.E. owing to their position on the Council.

Suggested Areas.

The next resolution was carried without alteration, an amendment suggesting that Parliamentary areas should be observed being considered unnecessary, as the representation of the Local Associations Executive is already on this basis.

That this Conference approve the adoption of the division of the country into suggested areas as a temporary measure.

Branches of the Society.

Mr. Body, Southend, brought forward the following resolution:

That it is desirable that pharmaceutical local Associations become branches of the Pharmaceutical Society, and membership of the local Association conditional upon membership of the Society.

Notwithstanding Mr. Body's forceful arguments, there was some opposition from the delegates from Warrington and Salford, but the resolution was carried.

Sub-local Secretaries.

The following resolution (originally an amendment) was next debated:

That, actuated by a desire to strengthen the hands of the Pharmaceutical Society and bring all chemists into personal contact, with a view to mutual benefit, the Conference suggests sub-local secretaries should be appointed by local Associations in scattered and large areas.

The resolution was carried, but not before the Secretary had spoken rather plainly and with some warmth to the effect that, although a paid official, he intended to express his opinions freely when called upon by the President.

The Industrial Council.

A scheme for the control of pharmaceutical service and for providing sickness and unemployment benefits was the next item on the agenda, but it was felt that this was a

suitable time for a statement by the Secretary as to the present position regarding the Industrial Council for the drug-trade which it is desired to set up. The following is an abridgement of the Secretary's speech:

Since the agenda was prepared the Government has sent a summons to the Pharmaceutical Society asking them to send a delegate to a Conference in London to consider a proposal by the Ministry of Labour to set up one comprehensive Trades Board for the whole of the distributive trade, and, at the President's direction, I attended that Conference. There were about 200 delegates there, representing every kind of shopkeeper, including the ice-cream vendors and Billingsgate fish porters. After a long discussion, the Conference, as you will readily understand, were not prepared to come to a definite decision. Although they were being pressed to agree to one comprehensive Trades Board, the Conference appointed a Committee of twenty representing employers and twenty representing employés unions, and I was appointed as one of those representing the employers for the drug-trade. That Committee has met twice, and by a majority of, I think, 18 to 8, has passed a resolution that a comprehensive Trades Board could be set up for the distributive trades. It is significant, however, that nine of the eighteen who voted for the one Board were made up in this way: Six were members of the Shop Assistants' Union and three of the Co-operative Union of Workers, so that nine out of the eighteen represented two organisations, who, of course, for their convenience will want one Trades Board for all the trades covered by their organisation. I moved an amendment—by lifting a paragraph out of the Government's report—that the Ministry should ask the various organisations to nominate the people that they would nominate if there were to be a Trades Board, and that then that group, when called together, should decide whether there should be one comprehensive Trades Board with sections, or whether there should be separate Trades Boards for these separate trades, and that the Minister was not to put the Act into operation until he had the report of the Conference. There were ten out of twenty-eight who supported that amendment. But it is important to remember that in this ten there were the accredited representatives of the grocers, of the meat trade, of the jewellers, of the tobacconists, and of the confectioners. That Committee, in the light of that division, are unable to report to the Conference which appointed them anything other than the mere minutes, and to-morrow morning those 200 odd representatives will meet again to have the benefit of the Committee's report, and it does not seem to me that it will carry them much further. It will mean that the Committee have voted for a comprehensive Trades Board, but the significant thing will be that the authorised spokesmen for the big trades I have named have voted against the comprehensive Trades Board. Some time ago our Council passed a resolution referring to a Committee of the Council the question of considering an Industrial Council for Pharmacy. Little progress has been made with that during the intervening weeks. The Council and Committees, having been engaged during the last two or three months on matters of very vital and urgent importance, have not found time to deal with that matter; but, as the outcome of the Government's action, a special meeting of the Council was called, and it decided that immediate steps should be taken to set up an Industrial Council for the whole of pharmacy. They decided to do that first of all on its merits—because they believed that the formation of a Whitley Council, as recommended by the Government, was right—but they decided to do it hurriedly, because it was the only way in which the inclusion of pharmacy in a Trades Board could be avoided. The Minister made it quite clear that unless a trade can show that it is sufficiently well organised on both sides—employers and employés—to deal with questions affecting wages and conditions of employment, he will apply the Trades Board Act. The difference between a Trades Board and an Industrial Council can be put shortly. The one great distributive Trades Board speaks for itself. I asked the Minister's representative in the chair what kind of Trades Board he contemplated. He said he thought a Board of 300 would be required—150 on each side—and that Board, with such a representation as you can imagine pharmacy would get on it, would be the governing body to decide the whole question of wages and employment, and might be appealed to by the Government on other matters. But even if it were to be an individual Board—a Board applying for one trade only—the vital thing to remember is that the Board is nominated by the Government, that the Government asks organisations to make suggestions, but the nominations are made by the Government. Secondly, that the chairman, vice-chairman, and one other member are appointed by the Government from outside the trade. They are members of the Board. They leave members of the Board who are in the trade to vote, but, where there is a deadlock, as there often is, as between employers and employés, those three vote and settle it. So that on all matters of vital difference the trade hands its affairs over to three barristers nominated by the Government. The Industrial Council is a voluntary body. So far as the wholesale trade is concerned, they have reached from both sides such a state of organisation that, in all probability, they would have no difficulty in satisfying the Government that they have the machinery. So far as retail pharmacy is concerned, the Council is of opinion that the machinery of our local Associations, through the new L.A.E. with its local Associations, could be made easily to represent the retail employers' section of the drug-trade, and that, as such, it is perhaps a better organised body than almost any other that exists in any of the distributive trades. Instead of building a fresh machine, they consider that the machine already in existence, with such minor adjustments as have to be made, should be utilised for this purpose, and is ready at hand. They have also decided that they would recommend our assistants to put themselves in a position of appointing recognised representatives on the Industrial Council. There are four or five unions already existing catering for the assistants and apprentices in retail pharmacy, and in the wholesale. The Council felt, and have given a pledge that they ought not to take any part in advising assistants as to what organisation they should join. That should be a matter entirely for the assistants, and any attempt—even if it did not create great friction with existing unions—any attempt to shepherd assistants into an organisation which was in any way influenced by the employers would at once be rejected by the Ministry of Labour, and it would not be regarded as the proper organisation representing the employés in the trade. Therefore the Council is about to organise half a dozen or so meetings of the retail assistants and apprentices, qualified and non-qualified, and they are about to ask you, as employers in the various districts, to do all you can by way of giving facilities to these assistants in order that they may come and hear at first hand what the position is. They would be advised to join some organisation, either to join an existing union or, if they choose, to join an Association—which need not be registered under the Trade Union Act, but which can perform the functions of a trade union for this purpose. It will be left to them. The Conference of the drug-trade decided to tell the Minister they would not go into a Trades Board.

The following resolution was then put to the meeting and carried unanimously:

> That this Conference strongly supports the Council in its determination to avoid the inclusion of the drug-trade in a comprehensive scheme for applying the Trade Boards Act to the distributive trades, and approves the scheme for an Industrial Council outlined at the meeting of representatives of the various sections of the drug-trade held at the Society's House on April 4, 1919. Further, it is of opinion that the Local Associations Executive should form the Employers' Branch of the Retail Section of the proposed Industrial Council, and that local Associations should be advised by the Local Associations Executive as to what changes in their constitution (if any) would be necessary to enable them to act on behalf of employers.

At this stage the Conference adjourned for lunch.

On resuming at 3 P.M. the President called on Mr. J. Rutherford Hill to make a statement in regard to the organisation of chemists in Scotland. Mr. Hill referred to the meeting which is to take place in Edinburgh on April 30. Although a separate organisation was desirable in Scotland for various reasons, it was hoped to link up with the London Conference so that there would be complete unification of the whole of Great Britain when it was desired to speak on behalf of the whole body of pharmacists. The rest of the afternoon was taken up with a discussion of various topics, the result being represented by the passing of the following resolutions:

> That in the opinion of this Conference the need for a Federation of Local Associations is urgent, and should be taken in hand at once.
>
> That every local Association should embrace in its scheme some means of assembling for educational and social purposes the apprentices and unqualified assistants in its area.
>
> That in view of the approaching Ministry of Health, action be taken to secure points of contact with the medical authority, with a view to the inclusion of pharmacy as an integral part of an enlarged and reconstructed medical organisation.
>
> That it is important and desirable that pharmacy should be adequately represented on any Advisory Boards and Local Committees which may be formed by, or under, the new Ministry of Health Department of State.

That the War Auxiliary Benevolent Fund be immediately available to help demobilised men this spring by paying their college fees or giving a grant towards their maintenance, if their circumstances are of so exceptional a character that they ought not to wait until the Government scheme commences in October.

That this Conference demands that dispensing under the Venereal Disease Act should be in the hands of chemists as under the National Health Insurance Act.

That the Conference desires to draw, most urgently, the attention of the Local Associations Executive to the large number of patent medicines on the market which are at present retailed at a less profit than 20 per cent., and contends that 25 per cent. should be the guaranteed minimum profit on patent medicines, and that the Inland Revenue Authorities should be asked to alter the incidence of the Medicine-stamp duty.

That poisons should not be supplied to unqualified traders.

The proceedings terminated at 5.30 P.M.

Thursday's Proceedings.

The Conference was still sitting when we went to press, having eighteen resolutions and some amendments left to be disposed of. The morning was occupied by proposals concerning Insurance terms, and may be summarised as an education in decimal fractions, concerning which some at least of the delegates obviously knew more than the late Lord Randolph Churchill. There was a general agreement, reflected in the terms of the resolutions, to press the Commissioners for better fees, and to give the Local Associations Executive specific instructions on this question. The disclosure that one delegate had had an awful dream in the night, and the complaint of another that his water-rate had gone up, afforded sufficient relief to the decimals.

North British Branch.

A MEETING of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on April 16, Mr. William Giles in the chair. There were also present: Messrs. Arthur, Cowie, A. Currie, Fisher, Forbes, Giles, D. Gilmour, Guthrie, Jack, McKenzie, McMillan, Murray, Nesbit, and Storrar.

It was agreed that the next election of Executive take place on June 18.

LOCAL ORGANISATION.

The special Advisory Committee appointed to meet representatives of the Glasgow and Edinburgh Associations reported that they met on April 9, when it was agreed to suggest that the Executive should convene a general meeting of Scottish pharmacists, to include also assistants and apprentices, for April 30, for the purpose of considering the question of local organisation in Scotland and other matters relating to organisation. It was also agreed to suggest that local Associations should be invited to consider matters on the agenda and be prepared to send delegates with instructions to the general meeting. With reference to the subject of conference between the Special Committee and the representatives of the two Associations, it was agreed that it should be stated on the agenda of business for the general meeting in terms of the following memorandum prepared by three of the representatives in consultation with a member of Executive. This memorandum is to be submitted to the general meeting on behalf of the Glasgow and Edinburgh Associations:

Memorandum.

Proposals by a Joint Committee appointed by the North British Branch Executive, Glasgow and West of Scotland Chemists' Association, and the Edinburgh District Chemists' Trade Association to outline a scheme for the establishing of a Federation to protect and further the interests of pharmacists, their assistants and apprentices.

Title.

The Scottish Pharmaceutical Federation.

Objects

(1) To promote, develop, and protect the interests of its members.

(2) To fix and regulate profits on, and conditions of sale of goods, and to secure mutual support and co-operation in trading.

(3) To regularise apprenticeship, to assure adequate wages and terms of service for assistants and apprentices, and generally to render the profession attractive to the best class of men and women.

(4) To raise and maintain a common fund, to be applied in carrying out the objects of the Federation.

(5) Penal clause (to enforce observation of Federation rules).

(6) To provide for representation in Parliament and on public bodies.

(7) To provide an Employment Bureau.

Membership.

Membership shall be open to pharmacists and to such others as are serving, or have served, a regular apprenticeship under the control of a pharmacist.

Rules and regulations as shall be agreed upon.

MEETING TO BE CALLED.

The Executive accepted the suggestions made, and accordingly decided to call a general meeting of Scottish pharmacists, to include also assistants and apprentices, for April 30, when the foregoing memorandum would be submitted for consideration and also the following matters:

1. The maintenance and improvement of local organisation in Scotland and the rendering of it more effective. The following points will fall to be considered:

(*a*) The grouping of Associations with a view to annual district conferences at Aberdeen, Dundee, Edinburgh, and Glasgow, and an annual general conference of Scottish pharmacists.

(*b*) The membership of local Associations and their relationship to the Pharmaceutical Society as the central statutory authority.

(*c*) The linking-up of Scottish local organisation with local organisation in England and Wales and with any general conference of the pharmacists of Great Britain.

(*d*) The question of territorial representation and the method of electing the Council of the Society.

2. The Trade Boards Acts, 1909 and 1918, and the proposed Industrial Council for the drug trade.

DRUG TRADE INDUSTRIAL COUNCIL.

A discussion took place on the proposed establishment of an Industrial Council for the drug trade. It was agreed that this was a matter quite distinct from the proposal submitted by the Glasgow and Edinburgh Associations, and that any action to be taken with reference to an Industrial Council for the drug trade would naturally follow on the lines indicated at the meeting held in London on April 4.

EDUCATION COMMITTEE.

It was reported that the Scottish Education Department, in reply to an inquiry as to whether a two years' pupilage in a pharmacy would be accepted as evidence of receiving suitable and efficient instruction in some other manner so that the apprentice would not be required to attend the continuation classes, provided in the third year he devoted his whole time to the continuation classes, putting in 960 hours' attendance in that year, had said that such a question must first be determined by a Local Education Authority, and should be deferred till such education authorities had been duly elected. It was agreed to address the question to the Education Authority for Edinburgh.

SCOTTISH BOARD OF HEALTH BILL.

It was reported that the Secretary for Scotland had been unable to fulfil his undertaking to meet a representative deputation from the Executive, and there was therefore no opportunity of discussing the matter with him. The views of the Executive, however, had been fully stated to the Lord Advocate, who undertook to report them to the Secretary for Scotland. The result, however, was that the Bill had passed through the House of Commons without their claim to have a duly qualified pharmacist appointed as a member of the Board of Health for Scotland being given effect to. It might still be possible to secure that a duly qualified pharmacist should find a place on the staff of the Scottish Board of Health. The other matter which they had put forward was the securing of proper representation of qualified pharmacists on any Consultative Committees appointed under Clause 5 of the Bill. It was remitted to the General Purposes Committee to watch developments and to keep this matter in view.

EMERGENCY MEDICINES.

Reports in reply to the communication from the Executive had been received from various districts. In rural areas and provincial towns, as well as in the suburban districts of the large towns, no practical difficulty appeared to have arisen. The trouble had been chiefly in the central areas of the cities and larger towns. Generally speaking, the cessation of the influenza epidemic had been coincident with a complete disappearance of any difficulty as to the ready obtaining of all necessary emergency medicines, and there are now no complaints from any district.

Distribution of Drugs in Holland.

When the scarcity of drugs in Holland became serious, several measures were taken to promote a regular and equitable distribution of the stocks. First the Board of the Nederlandsche Maatschappij ter Bevordering der Pharmacie tried to obtain for its members an extra supply of fuel and petroleum for use in the pharmacies during the gasless hours, and the different departments of the Board severally attempted to provide the pharmacists with small quantities of articles, such as lard, etc. These measures were not very successful, so the Board drew the attention of the Minister of the Home Department to their difficulties, with the result that a Committee was appointed in November 1917 for advice on the distribution of drugs and medical appliances generally, with Professor Dr. L. Van Itallie, of Leyden University, as chairman. The work of this Committee, which was to reserve for pharmaceutical use such articles as lard, linseed oil, turpentine, paraffin, vaseline, etc., had apparently less effect than that of the Board, and as the situation became more critical daily, in May 1918 a Government Bureau was instituted in Amsterdam under the direction of a pharmacist, Mr. J. Jonkman. This Bureau took over the control of drugs, including the following: Acacia, acetic acid, acetylsalicylic acid, agar-agar, airol, aloes, anethol, antipyrin, asafœtida, atropine, balsam of copaiba, balsam of Peru, bearberry-leaves, benzoic acid, bismuth and salts, borax, boric acid, bromides, calcium lactate and phosphate, camphor, carbolic acid, cascara, chloroform, citric acid, codeine, condurango, cream of tartar, creolin, creosote, dermatol, egg albumen, ergot, frangula-bark, formaldehyde, hexamine, hydrastis, iodine and iodides, Irish moss, iron lactate, jalap, lead acetate and oxide, mercury salts, nux vomica, oils of aniseed, fennel, peppermint, orthosiphon-leaves, phenacetin, resorcin, salicylio acid and salicylates, salipyrin, salol, santonin, senega, senna, sodium bicarbonate, sodium thiosulphate, strophanthus, sulphur, tannic acid, tragacanth, veronal, viburnum prunifolium, woolfat (hydrous and anhydrous), and all surgical dressings. The trade in these articles is confined to registered wholesale dealers, who are only allowed to supply registered pharmacists, physicians, and veterinary surgeons; laboratories and hospitals are treated as retail dealers if they apply for a special permit, which stipulates the articles allowed them. To be registered as a dealer, either wholesale or retail, it is necessary to submit an application to the Director of the Government Bureau, giving particulars of the business and stating the quantities of controlled drugs already in stock: the application is then referred to the local Inspector of Health for approval, and the Government reserve the right of either total or partial refusal. If approved, the pharmacist must pay a deposit of 250fl. as guarantee, and must sign a declaration that he will only sell the controlled articles on a doctor's prescription, or to the public for medicinal purposes in quantities not exceeding the maxima allowed in the list.

Furthermore, he has to enter each purchase or sale into special books and to send in a fresh list of stocks every three months. In order to protect the interests of pharmacists and to collaborate with the Government Bureau, in June 1918 the Nederlandsche Maatschappij ter Bevordering der Pharmacie founded a Pharmaceutical Crisis Committee, which meets at the Hague and undertakes the work of a co-ordinating link between the Bureau and the dealer. The Crisis Committee may be joined by all pharmacists and physicians (non-members of the Maatschappij having to pay 100fl. per annum), and its principle duties are:

1. To bring to the notice of its members all Government communications and regulations so soon as possible.
2. To safeguard the interest of its members under such regulations.
3. To promote a regular and equable distribution of drugs.
4. To promote the cultivation and preparation of drugs so far as possible, or to import them from foreign houses if necessary.
5. To reserve for medicinal purposes substances which are used in other industries, as fats, fixed oils, fruit-juices, soap, sugar, soda, vaseline, etc.
6. To obtain sufficient supplies of sundries, such as corks, paper, glassware, bicycle tyres, etc.
7. To give information and advice on the purchase of new materials and pharmaceutical products.
8. To pay a collective deposit for its members, so that each member pays 25fl. instead of the Government guarantee of 250fl. per pharmacy.

This Crisis Committee issued its first communication on its first day of meeting, with relation to the supply of fruit-juices, and on the first of each month since it has issued particulars with regard to the distribution of controlled drugs, and has already been of good service to its members, especially in the matter of an increased gas supply to pharmacists.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

London. The Insurance Committee met on April 24 to consider, among other business, the reports of the various Sub-Committees. The Finance Sub-Committee recommended that the resolution of January 25, 1917 (*C. & D.*, 1917, p. 113), relating to advance payments (of 5*d.* per script) to chemists be not acted upon after April 30, 1919; that, subject to the concurrence of the Pharmaceutical Committee, and until further order, payment on account, calculated at the rate of 6*d.* per script, be made in accordance with the Medical Benefit Regulations, 1916. The issue of notices announcing the discontinuance of the War Emergency Formulary preparations has been authorised. While a general dispensing service is not considered necessary after 8 P.M., facilities for obtaining urgent medicines after that hour are, in certain areas, required, and the Insurance Committee were asked to confirm the action of the Medical Benefit Sub-Committee in appointing a section to investigate and take any steps deemed expedient in connection with complaints arising out of difficulties in obtaining medicines after 8 P.M. Any case dealt with by the section is to be referred to the Medical Benefit Sub-Committee and Pharmaceutical Committee. A case of excessive prescribing was dealt with, and the sum of 22*l.* 4*s.* 1*d.* was recommended to be deducted from the amount payable to the practitioner concerned. Several cases of complaints against chemists were reported by the Pharmaceutical Service Sub-Committee. Precedence was alleged to have been given by a firm of high standing to prescriptions for private customers over those for insured customers, but the delay was considered excusable owing to extreme pressure of work. Regarding a complaint that a chemist had refused to compound a prescription, the Committee accepted the chemist's statement that he was incapacitated for work at the time. A complaint that cod-liver oil and malt had been refused to an insured patient was held to be substantiated. It was pointed out, however, that the malt and oil in stock was a proprietary brand and consequently more expensive, but, notwithstanding that fact, the manager had instructed the assistants to supply the proprietary brand, so that insured patients might not be inconvenienced during the scarcity of the preparation. The manager's statement was accepted. As a result of several complaints a chemist was removed from the list of persons supplying drugs and appliances.—The Finance Sub-Committee recommended payment of accounts amounting to 87,467*l.* 10*s.* 11*d.* Among these were the following to chemists: For the medical year 1918, 4,576*l.* 1*s.* 8*d.*; 1919, 7,629*l.* 11*s.* 2*d.* Under the Sanatorium Benefit Fund, for dispensaries 1,128*l.* 5*s.* and for appliances 2*l.* 5*s.* were included. The Medical Benefit Sub-Committee reported that on March 31, 2,173 contractors supplying drugs and appliances were included on the panel. Of these 1,327 were medical practitioners in general practice, ninety-eight in institutions, 687 chemists in general business, thirty-seven in institutions, and twenty-four other persons. Two names were added to the list of persons supplying drugs and appliances, and five withdrawn.

American Quicksilver.—The United States output returns for last year are interesting, these marking a decrease of well over 2,000 bottles against 1917, the total being 33,432 bottles, of which 23,331 bottles were produced in California, against 23,938 bottles in 1917. The new Idria mine—the leading producer—turned out practically one-half of the whole production. In 1917 the United States Government requisitioned about 40 per cent. of the output at $105 per bottle. The United States imports for the first half of last year amounted to 3,491 bottles. Notwithstanding the stringency arising from the war requirements, no new important sources of supply have been discovered in the States, and it is expected that a gradual return to normal conditions in market supplies will lead to a further contraction in production.

Associations' Winter Session.

Gloucestershire.—A general meeting of the Gloucestershire Pharmacists' Association was held on April 10, the President (Mr. W. H. Hill) in the chair. The President referred to the great loss the Association had sustained by the death of Mr. T. T. Dolman (Vice-President). A scale of minimum dispensing charges, suggested and compiled by the Committee, was adopted for use by members throughout the county. As a consequence of the discussion on Sunday and after-hours duty a small Sub-Committee was appointed to investigate the matter and to report to the Association at an early date. Mr. Roger Matthew Williams, Tewkesbury, was elected as member of the Association.

Halifax.—At a meeting of the Halifax Chemists' Association held on April 16, the President (Mr. B. C. Hodgson) in the chair, Mr. P. W. Swire reported on the Yorkshire Federation of Local Associations Conference held in Leeds on April 9, and also received final instructions for the London Conference. A letter from the Proprietary Articles Trade Association respecting a suggested scale of medicine-stamp duties was read, but the scheme was considered unworkable. It was decided to adhere to the former resolution (*C. & D.*, February 22, p. 63), the only alternative being a national boycott of all patent medicines which do not bear the requisite margin of profit. It was hoped that local Associations throughout the country would give this matter careful consideration at an early date.—Mr. Coltman (Hebden Bridge) was elected a member of the Association.

Hull.—The monthly meeting of the Hull Pharmacists' Association was held on April 15, the President (Mr. Arthur S. Snowden) in the chair. Mr. Thomas Smith addressed the meeting on *Unskilled Labour versus the Apprenticeship System*, prefacing his remarks with a strong appeal that other Associations should take up this subject for discussion. He stated that the future prospects of pharmacy were brighter than ever before. There are two main reasons for retarded progress; the apathy of the Pharmaceutical Society—he hoped that bacteriology would soon be included in the syllabus of the Minor examination—and the present high prices, which may lay chemists open to a period of extreme price-cutting. Parents can be reasonably asked to put their boys or girls into pharmacy, and with a fair hope of success. Unskilled labour is a real menace to the best interests of pharmacy, and eventually it may mean that some men may open stores to compete with pharmacists. Chemists should abolish unskilled labour and revert to apprenticeship in a modern form, with shorter hours and better pay. He outlined conditions under which there should be no difficulty in obtaining apprentices, and urged that Associations should advertise for pupils in pharmacy, applying also to the headmasters of public schools.—A discussion followed, and the suggested scheme met with general approval.

London (W.).—A meeting of the Western Association was held at 316 Regent Street, W., on April 23, the President (Mr. C. A. Noble) in the chair. The transaction of routine business was followed by an informal discussion on the hours of Insurance dispensing, and especially on the unequal incidence of prescriptions presented after or immediately before closing time. Mr. C. T. Allen then read a paper on *Business Topics*, dealing in particular with dispensing charges. The paper broke fresh ground by summarising the method adopted experimentally by the writer in order to ascertain with something like precision the actual cost of dispensing, and it was followed with close attention. Mr. Allen made it evident that the old system of pricing by doses was misleading in present-day conditions, and gave striking instances of undercharging caused by the failure to realise what dispensing was worth. An interesting discussion followed, contributed to by the President and Messrs. W. Browne, Barrett, Ellerington, B. R. Wilkinson, Shirtliff, and others. The questions asked by the speakers elicited some further points of value from Mr. Allen, to whom a cordial vote of thanks was passed. The discussion had a practical outcome in the appointment of a small Committee to investigate the question of dispensing charges with a view to working out a better system of pricing.

London Co.—A meeting of the London County Pharmaceutical Association was held on April 15, Mr. G. B. Barnard (Vice-President) in the chair. Delegates were appointed to the British Pharmaceutical Conference. The Committee decided to support the action of the Proprietary Articles Trade Association regarding the modification of the scale of stamp duty, and instructed the Secretary to communicate with the Commissioners of Excise and the Chancellor of the Exchequer. A resolution from the South-East London Chemists' Association on dispensing charges was referred to the District Associations. The Secretary reported, *inter alia*, on (*a*) the proceedings at the annual meeting of the Early Closing Association, and (*b*) cost of medicine bottles. A vote of thanks was accorded to the Dinner Committee for their arrangements at the "Victory" dinner.

Sheffield.—At a recent meeting of the Sheffield Pharmaceutical and Chemical Society, the President (Mr. A. H. Culverhouse) congratulated Miss Antcliffe, the first lady associate, on passing the Qualifying examination. The meeting resolved to approach the Chancellor of the Exchequer and the Commissioners of Customs and Excise, asking for a graduated tax on patent medicines of one penny for each threepence. The Students' Association wrote suggesting a mutual representation of the two societies. Their suggestion was remitted to the Council. Councillor Deakin then gave an address on *Our Need and Opportunity*. The speaker dealt with the controversy around the definition of the business of a chemist, and claimed that the future can be won only by association. Pharmacists must realise that they are living in 1919—an age of organisation. He spoke of the need for improved Insurance conditions. Under the Ministry of Health pharmacists must ensure proper recognition of their qualifications for the supplying of medicines. Persistence, guided by intelligent organisation, must and will win. Pharmacy should no longer be the scullery-maid of medicine. Mr. Deakin then outlined the work of the Council during the war, and congratulated the members on having Mr. Woolcock in the House. He did not think that alteration of the method of election should be attempted at present by appealing to Parliament. Chemists must protect their title, as they are the only "chemists" by statute in the country. He appealed for mutual trust, and urged that a Whitley Council should be set up. Co-operative societies should become subject to income-tax. He added the following in summary: Pharmacy must recognise that it confronts a new era; the days of isolation are past; all sections of the country are fraternising; pharmacy's problem is one of adjustment. In some things we seem to have learned nothing. Do not let us make the mistake of living the past over again. Do not let us regard the new as alien, simply because it is not the old.

Southend-on-Sea.—At a meeting held on April 10, the President (Mr. Shields) in the chair, the Secretary (Mr. Body) intimated that he had been elected on the Committee dealing with venereal diseases, also that he had received an intimation that there is no vacancy on the Committee of the Maternity and Child Welfare Centre. Arising out of the business of the last Pharmaceutical Society's Council-meeting it was noted that, should the trade be sufficiently well organised, it will have permission to appoint its own Industrial Council, otherwise a Trades Board will be set up with two Government nominees. This question will probably be settled at the Local Associations Executive Conference. It was announced that Councillor Herbert Jenkin is to address the Association at their first meeting in May. The meeting was then addressed by Mr. Keall (President of the Proprietary Articles Trade Association), who reviewed the P.A.T.A. movement from its inception to its present-day power and usefulness. He went on to point out that manufacturers are endeavouring to raise the price of their articles to bring about a better profit. In raising the price of the stamped articles certain concessions are necessary from the Customs and Excise authorities. For that purpose the P.A.T.A. have opened negotiations, and will require the energetic support of the trade. The following resolution was then passed:

> That this Association exert every effort to co-operate with the P.A.T.A. in its propaganda work in order to secure face values together with an adequate ratio of profit, and further, that support be given in the negotiations with the Board of Customs and Excise for the purpose of securing a modification of the stamp duties on more reasonable lines.

—At the adjourned meeting held on April 15, a deficit on the social was reported by the Secretary, and it was resolved to defray the balance outstanding from the Association funds. The meeting dealt with the resolutions arising out of the Conference agenda, and expressed their wishes for the instruction of the Association's delegate (Mr. Body). It was decided that no hard-and-fast rule should be observed by Mr. Body, but that he was at liberty to use his discretion in voting.

Sunderland.—At a recent meeting of the Sunderland Pharmaceutical Association, Mr. John Keall (President of the Proprietary Articles Trade Association) delivered an address on *The Work and Policy of the P.A.T.A.* with

regard to face value combined with adequate profit. The question of revised patent-medicine stamp duties on *ad-valorem* lines was also dealt with, and, after discussion, a resolution was carried supporting the P.A.T.A. in its policy and pledging the Association to assist it in every manner possible. The Secretary (Mr. E. R. Cherrett) was instructed to communicate with the Chancellor of the Exchequer and H.M. Customs and Excise advocating the proposed revision of stamp duties.

West Ham.—The first meeting of the session of the West Ham Association of Pharmacists was held on April 10. Mr. Soper spoke of the loss which had been sustained by the death of the late Mr. J. H. Matthews, and the Secretary was instructed to write to Mrs. Matthews condoling with her. The minutes of the annual meeting were agreed to. A letter was received from the Proprietary Articles Trade Association, advocating a more gradual and reasonable stamp duty for medicines, and this suggestion was supported. The increase of the subscription to 7*s.* 6*d.* was then discussed. Mr. Cleland considered that expenses should be kept down so as not to alter the subscription, but Mr. Blades pointed out that 7*s.* 6*d.* was less in purchasing value than 5*s.* before the war. The higher subscription was agreed to.

Wimbledon.—At a recent meeting of the Wimbledon Pharmacists' Association, Mr. Price-Bond (President) in the chair, an address was given by Mr. John Keall (President of the Proprietary Articles Trade Association). He said the P.A.T.A. is the most effective scheme for the maintenance of prices that has ever been applied. He then dealt with the minimum percentage of profit desired, stating that the reason for placing certain proprietaries on the list at a lower rate was the prospect of obtaining in the near future a larger percentage of profit. The majority of goods on the P.A.T.A. were shown to be protected at face values. It is more important to get a profit than to have face values. He spoke of the many difficulties met with in fixing prices, and urged pharmacists to write those firms not on the P.A.T.A. in order to encourage them to come in. The advantages of belonging to the Chemists' Defence Association were also outlined. Many questions were put, to which Mr. Keall replied.

Wolverhampton.—A meeting of the Wolverhampton Chemists' Association, under the chairmanship of the President (Mr. C. M. Warner), was held on April 9. The appointment, by the Pharmaceutical Committee, of Mr. F. J. Gibson, J.P., as delegate to the Local Associations Executive Conference, was confirmed, and Mr. Gibson was asked to support the resolution asking for an increased dispensing-fee with the present Tariff, and also to support the resolution asking for .1*d.* instead of .01*d.* as the minimum rate of pricing.

Industrial Council for the Drug-trade.

The first meeting of the Committee which was appointed by the Conference of representatives of those engaged in the drug-trade, which met on April 4, was held at 17 Bloomsbury Square, London, W.C., on April 16.

There were present the following employers' representatives: Messrs. D. Rainey Brown, W. Crawford, D. Lloyd Howard, G. E. Pearson and H. E. Webb (the Drug and Fine Chemical Manufacturers' Association); Messrs. W. L. Currie, W. S. Glyn-Jones, E. T. Neathercoat, and P. F. Rowsell (the Pharmaceutical Society); Mr. H. Wippell Gadd (the Drug Club); and Mr. F. J. Smith (the Wholesale Druggists' Sundries Association).

The workers' representatives were: Messrs. A. Boyd (National Warehouse and General Workers' Union), F. Bright (National Union of General Workers), A. Dalgleish (the Workers' Union), J. Garmston (Dock, Wharf, Riverside, and General Workers' Union), F. Hawkins (Amalgamated Society of Pharmacists, Drug and Chemical Workers), P. C. Hoffman (Shop Assistants' Union), W. Jones (National Warehouse and General Workers' Union), A. Jones (National Amalgamated Union Shop Assistants, Warehousemen, and Clerks), H. Skinner (Amalgamated Society of Pharmacists, Drug and Chemical Workers), and E. Wilkinson (Dock, Wharf, Riverside, and General Workers' Union).

Mr. David Lloyd Howard was voted into the chair.

The Committee considered the scope and objects of the proposed Industrial Council for the drug-trade, and decided that the following should be the primary objects of the Council:

To secure the largest possible measure of joint action between employers and workpeople for the development of the industry as a part of national life and for the improvement of the conditions of all engaged in that industry.

The regular consideration of wages, hours, and working conditions in the industry, with a view to establishing and maintaining such conditions as shall be equitable as between employer and employed. Provided always that the various sub-sections of the trade and industry shall be considered separately with due regard to their respective peculiar conditions.

The consideration of measures for regularising production and employment.

The consideration of means for securing the speedy settlement of disputes between different parties in the industry which it may not have been possible to settle by negotiation between the parties concerned.

The consideration and adoption of measures for securing the inclusion of all employers and employés in their respective organisations, and for securing the loyal observance by them of collective agreements.

The collection of statistics and information on matters appertaining to the industry.

The encouragement of the study of processes and design and of research, with a view to perfecting the products of the industry and of machinery and methods for economical manufacture in all branches of the industry.

The provision of facilities for the full consideration and utilisation of inventions and any improvement in machinery or method, and for the adequate safeguarding of the rights of the designers of such improvements, and the consideration of the question of technical improvements made by workpeople and the establishment of a special Committee of the Council as arbitrators in cases in which an employer and workman are unable to come to an agreement as to the proper reward for such an improvement.

Inquiries into special problems of the industry, including the comparative study of the organisation and methods of the industry in this and other countries, and, where desirable, the publication of reports. The arrangement of lectures and the holding of conferences on subjects of general interest to the industry.

The improvement of the health conditions obtaining in the industry, and the provision of special treatment where necessary for workers in the industry.

The supervision, without prejudice to the statutory rights and duties of the Pharmaceutical Society, of entry into, and training for, the industry, and co-operation with the educational authorities in arranging education in all its branches for the industry.

The issue to the Press of authoritative statements upon matters affecting the industry of general interest to the community.

The establishment and maintenance of such relations with the Government and Government Departments as shall ensure that the industry is consulted before the introduction of legislative or administrative measures which affect or may affect the industry.

The consideration of such matters as may be referred to the Council by the Government, Government Departments, or other authorities.

The establishment of such District Councils and Works Committees as may be considered necessary, whose functions shall be defined by the Joint Industrial Council.

Co-operation with the Joint Industrial Councils for other industries to deal with problems of common interest.

The Council, it was thought, should cover the following branches of the drug-trade: Drugs and galenicals, medical and flavouring essences, fine chemicals, druggists' sundries; and the following were proposed as sections of the Council: (*a*) retail; (*b*) fine chemicals; (*c*) drugs and galenicals; (*d*) druggists' sundries.

Mr. Boyd and Mr. Glyn-Jones, on behalf of the employés and employers respectively, were appointed joint secretaries. The Committee decided that a deputation should interview the Minister of Labour regarding their proposed Distributive Trades Board, in order that the objections of the drug-trade to inclusion in that Board could be laid before him, and that the assistance of Mr. Jack Jones, M.P., and Mr. W. J. Uglow Woolcock, M.P., be obtained in connection with the deputation.

Proposed Alkali Industry in Australia.—A movement is on foot in Australia to establish alkali-works for the production of caustic soda, chlorine, bleaching-powder, etc. A strong Committee of eight importers has been formed for the purpose of investigating the prospects for establishing the industry. The principal difficulty will be to obtain adequate and regular supplies of salt at a price sufficiently low.

Trade Report.

42 Cannon Street, E.C. 4, April 24, 3 p.m.

A Holiday tone has prevailed this week, and business has been somewhat slower than usual in recovering from it. Although the home trade is quiet, there has been a distinct revival in export business, especially to the Far East, and a number of important orders for chemicals have been booked for Japan, the ultimate destination probably being Siberia. Wholesale druggists are still buying very cautiously, and orders from that source are quite small. The impending Budget, with its potentialities, exercises a restricting effect on certain articles. The signing of the Peace Treaty, however, will be a far greater event, and until the official attitude towards future German trade with this country is declared and clearly defined buyers are not likely to operate with their usual freedom. The few price changes that have occurred are mostly small and unimportant, practically the whole list of synthetic chemicals being unchanged, the general tone continuing weak in most instances. Gallic and pyrogallic acids are rather cheaper. More activity is reported in spices, and buyers have operated with more freedom. Peppers, cloves, ginger, cassia lignea, and pimento have all improved in value. Cardamons have been in good demand and are dearer. Canary and coriander seeds are cheaper, but fenugreek is dearer. Shellac has shown more trade and speculative activity at rising prices in all positions. Menthol and Japanese refined camphor are firm. Among the reductions in essential oils are easier rates for cassia, Ceylon citronella, cajuput, and male-fern oils. Linaloe-wood oil is dearer.

Higher	Firmer	Easier	Lower
Cardamoms	Fenugreek-seed	Apricot-kernel oil	Albumen
Cassia lignea	Pepper	Camphor oil	Cajuput oil
Cloves	Pimento	Cassia oil	Canary-seed
Coconut oil (Cochin)		Chrysarobin	Cedarwood oil
Farina		Citronella oil (Cey.)	Coriander-seed
Ginger		Copper sulphate	Gallic acid
Linaloe-wood oil		Pyrogallic acid	Male-fern oil
Saffron		Tartaric acid	Orris oil
Shellac			

Acetanilide.—The high-priced stocks are being rapidly disposed of, and further shipments are on the way from the United States. The spot price is 2*s.* 9*d.*, and 2*s.* 6*d.* to arrive.

Acetic Acid.—The position is much more stabilised than what it was, and the higher freight rate is being paid, which has a tendency to offset any modification in the makers' prices. Stocks are by no means large, and shipments are coming forward slowly. Glacial is 95*l.* per ton, and 80-per-cent. pure 82*l.* on the spot, while for forward shipment 90*l.* and 72*l.* is quoted respectively.

Agar-agar is steady, with spot sales of No. 1 Kobe strip at 2*s.* 3*d.* per lb. The exports from Japan during January 1919 amounted to 89,981 kin, valued at 97,509 yen. For the corresponding period in 1917 and 1918 they were as follows:

	1917	1918
Kin	213,023	139,513
Yen	197,559	131,294

The destinations were as follows:

To	1917 Kin	1918 Kin	1919 Kin
China	110,649	23,313	7,244
Hong-Kong ...	49,559	52,752	58,734
Straits Settlements	7,465	5,630	4,400
Dutch Indies ...	17,918	20,020	2,000
Asiatic Russia ...	—	22	130
Great Britain ...	—	17,749	—
France	—	—	—
United States ...	5,703	756	8,780
Other Countries ...	21,729	19,271	8,693
	213,023	139,513	69,981

Albumen.—Chinese egg on the spot is quoted at 4*s.* per lb., and April-June shipment at 3*s.* 8½*d.* c.i.f.

Anise Oil, Star, is quiet, with spot sellers of "Red Ship" brand at 4*s.* 3*d.* per lb.

Antimony.—With the stocks in this country larger than ever and not much sign of improvement in the demand, the market both for English and foreign regulus is extremely dull and nominal. The price usually quoted for the former of 44*l.* to 45*l.* per ton seems purely fictitious, while foreign in dealers' hands can be had at about 37*l.* Merchants ask up to 35*l.* for small lots of crude, but buyers are difficult to find. The American price is again easier at 6½*c.* for spot and rather less for shipment c.i.f. New York.

Apricot-kernel Oil is easier, expressed offering at from 2*s.* 9*d.* to 2*s.* 11*d.* per lb. net, as to quantity, and bleached at 3*s.* 1*d.*

Arsenic.—The demand over the holidays was slack, but the market is fairly steady, with no particular offers at the moment. Low-grade foreign could be had at 30*l.* per ton, but best white powder is held for 32*l.* delivered London. Whatever demand there is is mainly for high-purity arsenic, so that inferior material is not easy to sell.

Aspirin.—Present price is reasonably low, and it looks as if buyers need not be reluctant in placing orders on the basis of 5*s.* per lb. to arrive.

Balsam Peru is offered at 16*s.* per lb. on the spot.

Balsam Tolu is scarce on the spot, and is offered at about 5*s.* 9*d.* per lb.

Barbitone.—The falling-off in the exports to America has seriously affected the position here, and accounts in a great measure for the decline in price to 50*s.* per lb.

Bromides are unchanged, with stocks getting on the small side, as importers are reluctant to operate until the question of the importation of German chemicals is decided.

Cajuput Oil is offered at the cheaper rate of 5*s.* 3*d.* per lb., and in lower tendency.

Calumba.—Fair natural sorts are obtainable at 95*s.* per cwt.

Camphor (Refined) is steady, with small sales of Japanese 2½-lb. slabs at 9*s.* 3*d.* per lb. and ¼-oz. tablets at 9*s.* 6*d.* The exports from Japan during January 1919 amounted to 190,202 kin, valued at 527,856 yen. For the corresponding period in 1917 and 1918 they were as follows:

	1917	1918
Kin	259,546	100,498
Yen	317,027	187,324

The destinations were as follows:

To	1917 Kin	1918 Kin	1919 Kin
British India ...	63,165	48,454	1
Asiatic Russia ...	—	—	423
Great Britain ...	8,618	20,520	3,780
France	—	—	24,872
United States ...	178,799	13,782	142,430
Australia	181	6,118	—
Other Countries ...	8,783	11,624	18,693
	259,546	100,498	190,202

Camphor Oil.—White is offered at the easier rate of 115*s.* per cwt. on the spot, and at 120*s.* to arrive. The exports from Japan during January amounted to 5,335 kin, valued at 1,259 yen. During the corresponding period in 1917 and 1918 the exports were:

	1917	1918
Kin	74,585	17,722
Yen	15,372	3,236

Canary-seed is lower at from 130*s.* to 135*s.* for common to good Mogador, and Spanish is 220*s.* to 240*s.*

Capsicums.—At auction 255 bags Nyasaland were bought in at 55*s.* per cwt. for good dark long picked and 47*s.* for fair.

Casein.—At auction 438 bags Indian sold without reserve for account of whom it may concern at from 32*s.* to 43*s.* 6*d.* per cwt.

Cassia Lignea is 5*s.* per cwt. dearer, whole selected and broken offering at 85*s.* on the spot.

Celery-seed.—Fair French is obtainable at 160*s.* per cwt. on the spot.

Chamomiles meet with a fair demand at from 230*s.* to 235*s.* for Belgian on the spot.

Chrysarobin has sellers at 16*s.* per lb. on the spot.

Cinnamon.—At auction 22 cases Tellicherry were bought in, comprising fine firsts at 1*s.* 6*d.* and good seconds at 1*s.* 5*d.*; 44 bales were also bought in, including broken quill at 1*s.* 2*d.*, quillings at 1*s.* 1*d.*, and chips at 10*d.* per lb.

Citric Acid.—The demand for export continues, and prices are inclined to be firmer, as several orders have been refused; 4*s.* 4*d.* is the spot value.

Cloves are dearer, spot sales including Zanzibar at from 10¾*d.* to 11*d.* per lb. and buyers. For April-May shipment 10*d.* c.i.f. is quoted. At auction 50 bags Amboyna were bought in at 1*s.* 10*d.*

Cocaine is unchanged at 35*s.* per oz. net for hydrochloride on the spot.

Coconut Oil is dearer at 73*l.* per ton for Cochin.

Cod-liver Oil.—Orders for new Lofoten oil are solicited on the basis of 400*s.* per barrel, f.o.b. Bergen, subject to permits. No permits, however, have yet been granted, and business in consequence is hung up.

Copaiba is fairly plentiful, with Central American (filtered B.P.) offering at 4*s.* 3*d.* per lb. on the spot.

Copper Sulphate.—There is a little inquiry for home farmers' use, the current price being 48*l.* per ton delivered; the export trade is at present lifeless, and Liverpool f.o.b. quotations are somewhat wider at between 45*l.* and 46*l.*, less 5 per cent. The weaker feeling in copper seems to have some effect on the demand.

Coriander-seed is cheaper at 19*s.* per cwt. for Mogador and 21*s.* for new crop. East Indian is 14*s.* to 15*s.*

Dill-seed is quoted at 30*s.* per cwt. on the spot.

Eucalyptus Oil has sellers of B.P. quality at 2*s.* 9*d.* per lb. on the spot.

Farina is firm, with spot sellers of No. 1 Japanese at 40*s.* per cwt.; sales of parcels afloat have been made at 39*s.*; sweet-potato flour is quiet, with spot buyers at 33*s.* per cwt.

Fenugreek-seed is firmer at 13*s.* on the spot.

Gallic Acid.—Galls having declined in value, importers have been able to modify their prices, asking 6*s.* per lb. on the spot and 5*s.* 6*d.* to come forward.

Gentian is quiet, with spot sellers at 57*s.* 6*d.* per cwt.

Ginger.—Cochin is dearer, with sales of wormy washed at 62*s.* 6*d.* to 65*s.*, with 70*s.* asked. Calicut is 65*s.*, African 52*s.* 6*d.*, Japanese 40*s.*, and Jamaica 115*s.* to 120*s.*

Glucose.—American liquid guaranteed water-white is quoted at 48*s.* 6*d.* per cwt. up to the end of April, duty paid, landed terms.

Male-fern Oil (ext. filicis liq.) is cheaper, English distillers offering at 30*s.* per lb. net.

Menthol is steady, with spot sellers of Kobayashi-Suzuki at 22*s.* per lb. The exports from Japan during January 1919 amounted to 14,293 kin, valued at 106,380 yen. For the corresponding period in 1917 and 1918 they were as follows:

	1917	1918
Kin	16,415	15,302
Yen	113,837	86,280

The destinations were as follows:

To	1917 Kin	1918 Kin	1919 Kin
British India	657	3,143	441
Great Britain ...	13,088	3,629	40
France	—	—	—
United States ...	2,489	8,325	13,580
Other Countries ...	181	205	232
	16,415	15,302	14,293

Mint Oil.—Japanese dementholised is steady but quiet, with spot sellers of the favourite brands at 5*s.* 9*d.* per lb. Small sales have been made at 5*s.* 7½*d.* The exports from Japan during January amounted to 12,896 kin, valued at 37,679 yen. During the corresponding period in 1917 and 1918 the shipments were as follows:

	1917	1918
Kin	8,511	5,802
Yen	19,263	12,767

Novocain.—The makers' quotation is 42*s.* 6*d.* per oz. on the spot.

Nux Vomica.—Cochin on the spot is quoted at 25*s.*, and to arrive at 20*s.* per cwt. c.i.f.

Oils, Essential.—The following are current quotations: *Cassia*, 80 to 85 per cent., 7*s.* 1½*d.* spot and 7*s.* 3*d.* c.i.f.; 70 to 75 per cent., 6*s.* 6*d.* spot and 7*s.* c.i.f. Ceylon *Citronella*, 2*s.* 6*d.* spot and 2*s.* c.i.f. *Clove*, 8*s.* to 8*s.* 6*d.* Cochin *Lemongrass*, 4¾*d.* per oz. spot and 4½*d.* c.i.f. French *Petitgrain* 25*s.*, and Paraguayan 15*s.* per lb. spot. French *Spike Lavender* 6*s.* 3*d.* spot and 8*s.* for shipment. Bourbon *Geranium* 25*s.* 6*d.* spot and 25*s.* for shipment. *Bois de Rose Femelle* 19*s.* 3*d.* per lb. spot and 18*s.* 6*d.* to arrive.

Orange-peel.—Malta machine-cut is offered at from 1*s.* 9*d.* to 2*s.* 3*d.* per lb. as to quality.

Orris Oil.—Concrete distilled from Florentine root has been reduced to 40*s.* per oz.

Pepper is dearer, the sales including fair *black* Singapore at 10½*d.* per lb. on the spot and sellers; for April-June shipment 10*d.* c.i.f. d.w. has been paid. Tellicherry is now 10½*d.* (buyers) and Aleppy 9½*d.* spot, at which sales have been made. *White* pepper is also dearer, with sellers of fair Singapore at 1*s.* 3¾*d.* and Muntok at 1*s.* 3½*d.* to 1*s.* 4*d.* per lb.

Peppermint Oil.—A New York advice, dated April 3, reports hand-to-mouth buying; $8.75 to $9.00 is quoted, and, as there will be no new-crop goods until the fall, lower prices can hardly be hoped for, although buyers will naturally confine their purchases to small quantities. American tin oil remains firm in London, leading importers quoting from 45*s.* to 46*s.* per lb. for finest, with dealers offering a limited quantity at 42*s.* 6*d.*

Phenacetin.—As stocks are gradualy becoming smaller on the spot 10*s.* 6*d.* per lb. is readily obtained for small parcels.

Pimento is firmer, with spot sales at from 4¾*d.* to 5*d.* per lb. and buyers.

Potash Iodide.—The exports from Japan during January 1919 amounted to 3,581 kin, valued at 26,866 yen. For the corresponding period in 1917 and 1918 the shipments were as follows:

	1917	1918
Kin	8,145	7,540
Yen	49,302	44,814

Of *crude iodine* 577 kin, valued at 4,955 yen, were exported during January, and the exports for the corresponding period in 1917 and 1918 were:

	1917	1918
Kin	319	2,128
Yen	2,495	12,157

Pyrogallic Acid.—Galls having become cheaper, importers are able to reduce prices somewhat, quoting crystals at from 12*s.* to 11*s.* 6*d.* and resublimed at from 14*s.* to 13*s.* 6*d.*

Quicksilver.—The American price is still towards a lower level, as $67 to $70 is quoted in New York, this being presumably due to the assumption that Government holdings must eventually be disposed of. The tone here, however, displays some little resistance on some inquiries for re-export. There seems some difficulty in getting orders through at less than 15*l.* 10*s.* per bottle, while more is asked for small lots.

Quinine is unchanged and nominal at from 2*s.* 11*d.* to 3*s.* per oz. for sulphate, sales passing through the usual channels. A certain amount of mystery is attached to the various meetings which have been held by the drug-trade. No details have transpired, and it will be interesting to know what the outcome is to be.

Resin.—The Resin Control is suspended from May 1.

Saccharin is practically a dead letter this week, sellers quoting American 550 pure at 10*s.* per lb. in bond.

Saffron is very firm and likely to be dearer, spot prices ranging from 48*s.* 6*d.* to 54*s.* per lb. net, as to quality.

Salicylic Acid.—B.P. acid powder is selling at 1*s.* 9*d.* per lb. in small lots, but substantial quantities can be had at 1*s.* 6*d.* A New York advice dated April 9 states that makers' costs have been cut down rapidly, and combined with large stocks and a marked falling-off in demand have been responsible for the weakness of the market. Leading makers are quoting 25c. per lb. in large quantities.

Shellac is dearer and in better demand, the sales including usual standard TN Orange quality up to 215*s.* to 220*s.* per cwt. in cases and 212*s.* 6*d.* to 215*s.* in bags; fine Orange is 320*s.* to 370*s.*, and cakey AC Garnet 225*s.* To arrive, TN is higher, with sales of May-June shipment in bags at from 180*s.* to 187*s.* 6*d.* c.i.f.; for August delivery sales include TN at from 192*s.* to 205*s.*

Soda Salicylate.—Owing to the comparatively limited supplies available, the reduction in price is taking place much more slowly than in salicylic acid. The spot value is 2*s.* 9*d.*, and to come forward 2*s.* 3*d.* is quoted. A New York advice dated April 9 states that U.S.P. is offered by makers at 35c. for large lots and up to 50c. for small quantities.

Sparteine Sulphate varies from 22*s.* 6*d.* to 25*s.* per oz., with sales at about these prices.

Tamarinds.—Fair West Indian are offered at 70*s.* per cwt. on the spot. Further arrivals have taken place.

Tartaric Acid is about steady at from 3*s.* 3½*d.* to 3*s.* 4*d.* per lb. on the spot.

Turpentine is steady at 99*s.* per cwt. net on the spot, and May delivery at 90*s.*

American Peppermint Oil.

R. W. Greeff & Co., agents for Mr. F. M. Rudd, Bronson, Mich., have issued a circular in the course of which they state that "the steady and continuous advance in price has definitely convinced buyers that there must be special reasons why American peppermint is so exceptionally dear this year. We are assured by Mr. Rudd that the rise is not due to manipulation, but is justified by the unusual smallness of last season's crop. The distillers are actually paying 100 per cent. more to-day than they paid a few months ago, and as there are only a few thousand pounds available for sale it is an open question whether the present quotations will remain much longer in force. Our supplier strongly recommends buyers to cover their requirements up to next September for delivery from London stock, as he doubts whether he will be able to make further shipments before the autumn."

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the various ports named :

To London
(Apr. 8 to 19).

Acetone (St. John, N.B.), 81 drms.
Alcohol, wood (St. John, N.B.), 510 drms.
Almonds (Fr.), 551 bgs. 80 bls. (Port.), 73 cs. 50 bgs.
Barytes (U.S.), 381 brls. 15 cks. (Sp.), 279 brls. 1,239 bgs.
Bronze powder (Jp.), 13 cs.
Calcium carbide (Odda), 24,282 cwt. (St. John, N.B.), 9,526 drms.
Carbon, black, 437 cs.
Casein (B'bay), 1,135 bgs. (P. Said), 1,000 sks. 3,013 bgs. (Aust.), 1,160 bgs.
Chemical products, etc., unrated (Fr.), 30 cks. 17 cs. (N.Y.), 192 pkgs.
Acetic acid (N.Y.), 190 brls.
Argol (Fr.), 391 bgs.
Arsenic (Jp.), 62 pkgs.
Blanc fixe (N.Y.), 30 cks.
Betanaphthol (N.Y.), 7 brls.
Boric acid (N.Y.), 1,028 sks.
Bromides (Fr.), 30 cs. (N.Y.), 65 cs.
Citric acid (Fr.), 20 kgs.
Creosote carb. (Fr.), 2 pkgs.
Ethyl chlor. (Fr.), 1 cs.
Formaldehyde, 162 brls.
Lead acetate (N.Y.), 35 brls.
Nicotine sulphate (N.Y.), 20 cs.
Potash (St. John, N.B.), 5 brls.
Saccharin (N.Y.), 30 cs.
Soda caustic (Fr.), 34 drms.
Soda sulphite, 20 cks.
Tannin (N.Y.), 25 brls. 377 cks.
Tartar (Fr.), 879 bgs. (Gr.), 612 bgs.
Vanillin (N.Y.), 20 cs.
Cocoa-butter (N.Y.), 497 bls. (Rio), 217 cs.
Drugs, etc., unrated (St. John, N.B.), 36 cs. (N.Y.), 1,623 pkgs. ; herbs, roots, barks, etc. (M'seilles.), 2,608 pkgs. (N.Y.), 57 bgs. 156 pkgs.
Aconite-root (N.Y.) 25 bls.
Aloes (N.Y.), 98
Annatto (Jam.), 250 bgs.
Broom-root (N.Y.), 306 bls.
Calumba, 20 bgs.
Cardamoms (B'bay), 26 cs.
Cassia fist. (Amst.), 24 bskts.
Cinchona (Fr.), 20 cs.
Copaiba (Trin.), 13 pkgs.
Cuttlefish bone (Fr.), 17 pkgs. (E.I.), 25 pkgs.
Galls (B'bay), 270 bgs.
Henbane (Alex.), 51 bgs.
Henna (Alex.), 30 bls.
Lavender flow. (Fr.), 16 bdls. 88 pkgs.
Liquorice-juice (M'seilles.), 76 cs.
Liquorice powder (Fr.), 20 bgs. 34 bls.
Papain, 1 cs.
Saffron (Sp.), 9 pkgs.
Sandalwood-roots, 75 bgs.
Tamarinds (Barb.), 309 brls.
Turmeric (B'bay), 1,815 bgs.
Uva ursi leaves (Fr.), 33 bls.
Valerian (B'bay) 139 bgs.
Drugs, etc. : medicines (Boston), 161 cs. 1,543 bxs. (N.Y.), 334 pkgs. ; emulsions (Boston), 5,699 bxs. ; vaseline (N.Y.), 4,383 cs. ; Fellows' syrup, 433 cs. ; liver pills, 20 cs. ; glyco-thymoline, 894 bxs.
Dyes, dyeing and tanning materials, etc. : cochineal, 25 bgs. ; cutch, 20 bxs. ; dyes (Fr.), 47 cks. ; hemlock (tanning), 60 cks. ; myrobalans, 2,176 bls. 1,204 bgs. : tanning ext. (N. News), 1,865 brls. ; wattle ext., 3,065 bgs.
Egg products : egg yolk and albumen, 825 cs. ; egg yolk powder, 112 cs. ; albumen, 51 cs.
Gelatin (Fr.), 20 cs. 100 bls.
Glucose, 2,836 brls. 1,905 cs. (Aust.), 150 brls.
Gums, resins, etc. : acacia (B'bay), 201 bgs. (P. Said), 700 bgs. ; copal 50 cs. (Amst.), 564 bgs. ; damar (S'pore), 100 cs. (Jv.), 250 cs. ; karaya, 200 bgs. ; tragacanth (B'bay), 258 bgs. : not described (B'bay), 1,246 bgs. (Aden), 14 bgs.
Honey (Jam.) 158 cks. 107 cs. 34 brls. (Aust.), 12,702 cs. 76 cks. (N.Y.), 284 cs.
Lithopone (R'dam), 200 cks.
Oils, essential, unrated (Fr.), 97 cks. (Sp.), 4 drms. ; cinnamon (Cey.), 5 cs. ; citronella (Osaka), 10 drms. (Cey.), 37 drms. (R'goon), 4 crts. ; eucalyptus, 229 cs. ; geranium (Havre), 10 pkgs. 15 drms. ; mint (Jap.), 35 cs. ; orange (N.Y.), 10 cs. ; peppermint (Fr.), 6 cs. (N.Y.), 20 cs. ; turpentine, 40 drms. ; vetitvert, 2 cs. ; ylang-ylang (Havre), 2 cs. (Marseilles), 22 cs.
Oils, fixed : castor, 385 drms. ; coconut (Cey.), 403 pps. 80 pns. 46 hds. (Amst.) 588 brls. (R'dam), 234 brls. (Cochin), 3,200 cs. 50 pps. ; olive (Fr.), 264 cks. 230 cs. ; rape (Holl.), 624 brls. ; wood (Ch.), 1,500 cs.
Perfumery (Fr.), 31 cs. ; perf. water, 10 cs. ; perf. spirit, 32 cs.
Petrolatum, 120 brls.
Rennet (C'hagen), 100 kgs.
Soy (Ch.), 25 cs.
Seeds, etc. : canary (Gib.), 500 bgs. ; caraway, 815 bgs. (R'dam.), 100 ; cashew nuts, 185 cs. ; copra (Zan.), 4,000 bgs. ; coriander (Fr.), 875 bgs. ; cotton (Alex.), 993 tons 1,593 bgs. (E. Af.), 250 bgs. ; ground nuts (W. Af.), 1,400 tons 2,600 bgs. ; mustard (C'hagen), 265 bgs. ; soap nuts, 100 bgs.
Spices : arrowroot (Barb.), 25 brls. ; cassia (H. Kong), 20 bls. ; chillies (E. Af.), 92 bls. 89 bgs. ; cinnamon, 815 bls. ; cloves (B'bay), 447 bdls. (Natal, etc.), 500 bgs. 251 bls. (Zan.), 6,798 bls. ; ginger (B'bay), 1,877 bgs. ; nutmegs, 13 cs. (Jv.), 36 bgs. ; pepper (S'pore), 801 bgs. (Java), 4,979 bgs. (B'bay), 777 bgs. (P. Said), 359 bgs.
Starches (bags) : farina (Jp.), 11,059 ; wheat, 1,142 bgs. 1,430 pkgs.
Tallow (Aust.), 1,233 cks. ; stearine, 250 cks.
Vanilla (Havre), 2 cs. (M'seilles), 86 cs.
Wax, bees' (Alex.), 56 bgs. (R'goon), 10 bgs. (Jam.), 97 sks.
Wax, not described (N.Y.), 1,172 brls. 1,017 bgs.
Wax, paraffin, 125 brls. ; scale, 7,859 brls.
Zinc oxide (Tokio), 95 cs. (Aust.), 160

To Liverpool
(Apr. 7 to 17).

Alcohol (Natal), 200 drms.
Antimony ore, 156 sks.
Barytes (U.S.), 545 brls. (Sp.), 1,274 sks.
Bronze powder, 27 cs.
Chemical products :
Argol (Cape), 200 bgs.
Aspirin (N.Y.), 22 brls.
Calc. acetate (St. John), 2,712 bgs.
Calc. tartrate (Fr.), 240 bgs.
Chloroform (Fr.), 1 cs.
Cream of tartar (Fr.), 6 cks. (Sp.), 5 brls.
Lead acctate (N.Y.), 88 brls.
Pot. muriate (Fr.), 1,000 bgs.
Saltpetre, 2,000 bgs.
Cocoa-butter (N.Y.), 99 cs.
Drugs, etc., unrated (Havre), 137 pkgs. (Sp.), 17 pkgs.
Annatto (W.I.), 50 bgs.
Areca, 90 pkgs.
Bayberry (U.S.), 57 bgs.
Buchu, 20 bls.
Cardamoms, 46 pkgs.
Cinchona (Mollendo), 966 bls.
Cod-liver oil (Newf.), 211 brls. 30 tins
Galls (Ch.), 207 bgs.
Kola (Cey.), 68 pkgs.
Liquorice-paste (U.S.), 100 cs.
Quillaia, 62 bls. 115 cs.
Senna (B'bay), 167 bls.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Title "Chemist."

Sir,—In the recent discussion in the *C. & D.* as to the limited use of the title "chemist," the fact that the word is used as a general noun seems to be lost sight of. That popular work, Nuttall's English Dictionary, gives the meaning of the word as "one skilled or versed in chemistry, or popularly, one who retails drugs, a druggist." But the retailer of drugs is bound by examination to be versed in chemistry, so that he comes within the authoritative description. Usage controls the meaning of words or alters them, as in the present use of the word "brave," formerly meaning handsome; in the word "let," which formerly meant to hinder; and in the use of the word "awfully" as applied to "jolly." But the dictionary definition also includes the wholesale chemist, the retail chemist, the technological chemist, the dispensing chemist, the pharmaceutical chemist, the scientific chemist, the analytical chemist, and the agricultural chemist, since all of these are bound to be skilled or versed in chemistry, or they could not carry on their business. It is obvious, therefore, that neither the scientific chemist nor the retail chemist can claim the sole right to the use of the word, which will probably have further application in the course of years. Even now the term "electrical chemist" is likely to come into general use.

Yours truly,
Senex. (91/7.)

The Council Election.

Sir,—Mr. Currie's remarks at the "Victory" dinner on the election of members of the Council would seem at first sight to show that we have the best possible representation and all pharmacists are thoroughly satisfied with it; but a more careful analysis of the facts might prove that his optimism is largely of that variety designated as "eye-wash." In round figures I believe there are about 17,000 qualified men on the Register, and of these some 8,000 are also members of the Society. Further, of the 8,000 members only between 3,000 and 4,000 exercise their right to vote. Or in other words, the Council is really only representative of a 25 per cent. minority of the craft. Are we to conclude, therefore, that 75 per cent. of the men who have passed the Qualifying examination are feeble-minded, or would it not appear that 50 per cent. of them are tired of the Council's methods and prefer to look after their own interests, whilst half of those who pay their membership fee do so more from sentiment than from any hope of improvement? What trade union or other trade society would be recognised by the Government on a 25 per cent. vote of the men engaged in that trade? And now there are no further aspirants to the seats of the mighty. Is it apathy or despair?

Yours faithfully,
Chas. Hamus.

Drug-trade Union.

Sir,—I have no desire to enter into controversy with a "Drug Worker" (*C. & D.*, April 19, p. 71), who, while apparently knowing the truth, prefers to distort it. However, here is something else over which he might ponder. It is reported to me by one who was there that at the meeting of the Provisional Committee for setting up an Industrial Council in the drug-trade, held at Bloomsbury Square on April 16, and presided over by Mr. Lloyd Howard, the drug workers, pharmacists, assistants, and dispensers were represented by twelve men. One alone of these men was a pharmacist, ten of the others were organisers of all kinds of trades, varying from dockers to domestic servants. They may be good organisers, they may be skilled agents in wage disputes, but for the objects of an Industrial Council outside mere wages they must be surely "wash-outs." It seems to me that we are drifting towards another farce—at least, being only a pharmacist and not a general labourer, that would appear to be the outcome.

Sigma. (127/65.)

Sir,—Your report of the meeting of chemists' assistants, held in Nottingham (*C. & D.*, April 19, p. 48), bears the mark of an intelligent anticipation of events, which is not always justified by the actual result. There was no

resolution on the question of Trade Boards; in fact, with great wisdom the promoters of the meeting refrained from putting forward any resolution at all. There was a considerable contingent of Messrs. Boots' managers present, and their feeling as expressed by those who spoke was against the suggestion that the Shop Assistants' Union was suitable for the organisation of chemists' managers and assistants. Mr. Chambers' assertion that Mr. Glyn-Jones had been obliged to abandon the idea of holding meetings to advocate the formation of an Assistants' Association was corrected, and his illustration of the value of trade unionism as exemplified by the Dublin award was somewhat discounted by the statement of the actual figures of the award—viz., 75*s.* a week for qualified chemists. The general opinion seemed to be that it is not desirable to link up skilled workers in pharmacy with unskilled workers in any of the existing unions, and that only a craft union could answer the needs of chemists' assistants.—Yours faithfully,

Nottingham. J. O. Teale. (128/33.)

Regarding Modified Examination.

Sir,—I have read with interest the letters which have been appearing in your paper regarding a modified pharmaceutical examination and the lowering of the standard for the Qualifying examinations. Although I have been out of the trade for some time past, due to my retention with the Forces, I take it that the shortage of qualified men still exists, as was the case during the war period, *i.e.*, before demobilisation started. The suggestions which have been put forward mostly tend to have the effect of opening the door to registration, but in a manner which I consider would be disastrous to the profession. Why lower the standard for qualification by modified examinations? If the privilege of being registered is to be a privilege at all, let a man qualify for it. The standard required for the Minor is no higher than it should be for the status of a pharmacist, and the examination such as should prove no obstacle to anyone devoting himself to a short course of study. Here is where we find the man who is able to uphold pharmacy as a career which should and could attract suitable men for the calling, and which should not cause the profession to be looked upon with disdain. Lower the standard for qualification and you injure the whole status of the pharmacist. It has been argued that insufficient numbers of pharmacists are available to maintain pharmacy in a healthy condition. Now, what I should like to draw attention to is the number of registered pharmacists still retained in the Army, pharmacists who are performing all sorts of menial duties, due to the fact that they hold no rank in the Army beyond a low one. I should like to know how many pharmacists are serving with the Forces and performing duties most remote from their calling. As a gunner in an artillery unit I know of several pharmacists still undemobilised in this unit, and still being made very little use of. Here is a source of qualified men who, when freed from military obligations, will make up to some extent for the shortage which may occur at present. We are not even given the chance of making use of our training either as civilians or in the Army. Is it not time that something was done to ensure that work of a useful nature is being performed by the pharmacists in the Army? I write as a pharmacist who was compelled to dispose of a business, give up a home, and be separated from wife and family, and for whose specialised knowledge the Army found no use for. Yours faithfully,

Active Service. (126/35.)

Registering Apothecaries' Assistants.

Sir,—Referring to Mr. F. Victor Wood's letter in the *C. & D.*, April 12, p. 71, I agree fully with all he says, especially his suggestion for a mass meeting of pharmacists to send a "strongly worded resolution to the Pharmaceutical Council," should these numerous protests go unheeded. Yours truly,

East Sheen, S.W. Percy N. Turner, M.P.S.

Sir,—I wish to join Mr. Wood and others in the protest against registration as chemists of apothecaries' assistants. I understand that when this subject is dealt with in public by the Council of the Pharmaceutical Society ample time will be given for criticism of the measure; but I suggest that in the meantime registered men and Minor students should show their disapproval of the project.

Yours truly,

Abergavenny. W. G. Kelynack.

Sir,—I wish to add my protest to that already declared against the admission of a host of unstandardised parts to the fabric of our craft. What is the reason for the Council of the Pharmaceutical Society acting in this direction? Is it need of qualified persons? If this is the cause, let the "Chartered Authority" demand (in no uncertain manner and refuse to be denied) the release of all qualified men from his Majesty's Forces. Is it that the Council has to make good some promiso to some lawyer or permanent official in a Government Department when it was being cute and trying to "wangle" something from these samo authorities? This seems tho more likely solution, and it is up to the craft as a whole to show that it objects to the imposition, that it despises the underhand and secret methods of the Council and deprecates the handing of its necessary duties to persons not "qualified."

Yours faithfully,

"15925." (126/65.)

Sir,—Now that there is so much discussion about admitting apothecaries' assistants to the Register of Chemists and Druggists, could not something be done at the samo time to enable pharmaceutical chemists of Ireland to register in Great Britain? These men are much more entitled to registration without examination. They undergo a sound pharmaceutical training, and pass an examination at least equivalent to the Minor. Many of them would willingly enter for the Minor but for the difficulty about the Preliminary. Most of the Irish chemists hold the Preliminary certificate of the Irish Pharmaceutical Society. The subjects in this examination meet the requirements of the Pharmaceutical Society of Great Britain, and, moreover, Latin is compulsory, and all the subjects must be passed at one examination, but for some reason Bloomsbury Square will not accept the certificate. When a man has read his Preliminary subjects at the age of fifteen or sixteen he does not feel like beginning them again when he has reached, say, the age of twenty-five.—Yours faithfully,

A. J. D. (128/34.)

Sir,—I think "C. E. W." is labouring under delusions, judging from his letter (*C. & D.*, April 12, p. 71). In the first place, he is only one of thousands from the ranks of pharmacy who have served in the Great War. It may interest him to know that I was at the Front (actual fighting zone) for many months, having been wounded and "gassed," the latter having such consequences as to necessitate my discharge from the Army. He must consider the sacrifices that have been made by qualified pharmacists, many being so disabled as to prevent their return to business, some losing their business, while others have made the great sacrifice. The case of pharmacy students is not unique among "professional" sufferers from the war. He states that but for the war he would have been qualified four years ago. Yes, and but for the war many other things would have happened. No, it is no use. We cannot allow sentiment to run away with us and frame unjust measures accordingly. The chances for him to qualify are still open, and I can assure him that I have never regarded as waste the months spent in college, and their value proves of daily usefulness. He must set his mind upon hard work if he wishes to qualify, and not always be seeking "something for nothing." A very sensible contribution was the letter from Lilian Bridges, and I read with much interest the letter of Mr. F. Victor Wood, M.P.S., which meets the case admirably. I hope that every local Association will follow the example of the Devon Pharmaceutical Association and send its protest to the Pharmaceutical Society without delay, which is dangerous. Apothecaries' Hall assistants or any other body of unqualified men must never be placed upon the Register of Chemists and Druggists without examination. The State is meeting the needs of apprentices, etc., whose education has suffered by their service with the Forces—*vide C. & D.*, April 12, p. 63—and there is now a chance for anyone who works hard to pass the "Minor" examination and become a qualified pharmacist.

Yours faithfully,

Disgusted Life-Member. (122/16.)

Sir,—The life of an *x*-ray focus tube is, as you know, passed in obscurity. Very little of human pleasure comes to it; the nearest touch, perhaps, is when a young doctor brings in a lady friend to show her the bones of her hand, and usually finishes by trying the screen on her heart. But there, *non eris criminator nec susurro*, rodent ulcers, lupus, early tuberculosis, late cancer, more than press down the balance on the gloomy side; but since you have brought "Xrayser II." into the light we get a little amusement. As you are aware, he tucks himself up in his exposing-cupboard, where, to make himself impermeable to the rays, he uses as a special fetish a mighty barricade of piles of the Oxford English Dictionary, and pauses for a reply. How he did jump last week! Replying to "Fair-play," he short-circuited on "L." and got the shock of his life. We quite thought the spark had blown his plug out and done for him. After a strong dose of sp. amm. aromat. he came out with "What about the Control?" It all happened so suddenly. He was, during his pause, writing up the gross injustice of the Dental Report people in

considering pharmacists who pull a tooth out occasionally as outsiders. He had, to use an expression which lexicographers will have to admit without examination, fairly got the wind up when he got in contact with "L." Go to "L" for definitions, *usque ad infernos*? . . . Can you not restrain "Xrayser II."? While life remains there is hope. Give him the Act of 1908, entreat him to read it with a prayer for humility and understanding, and remind him of the Departmental Committee's Report. Direct his attention to that part where the Committee mention a serious grievance of over four years' standing to apothecaries' assistants, and implore him to pause before he publishes his views about the injustice to registered dentists which will follow upon admitting tooth-pulling druggists. Seriously, there is at present a unique opportunity to show that it is not beyond the wit of man to devise a by-law in accordance with the intention of the Legislature in enacting Section 4 (*b*) without any appreciable difference to pharmacy as a whole. Yours truly.

Jackson Tube. (126/20.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Male Fern Emulsion.

J. W. T. (126/34) writes: I see from the *C. & D.* (April 19, p. 65) that the use of fixed oils in liquid extract of male fern emulsion was advocated at the meeting of the North British branch-meeting. Such an emulsion "goes" all right because the fixed oil acts as a solvent, but the product is a work of art which the patient may fail to appreciate if toxic effects are produced owing to the fixed oil promoting absorption of the drug.

Meat and Malt Wine Fraud.

We published (*C. & D.*, March 22, p. 72) a warning regarding a man who is going about selling to chemists a non-alcoholic meat and malt wine which we are informed is a fraudulent preparation. A subscriber (126/59) now writes: "Chemists should beware of a young, clean-shaven, little man who offers to supply three dozen meat and malt wine (non-alcoholic) at 40*s.* per doz. I placed an order for this quantity, and found on delivery that it appeared to be water coloured with cochineal and flavoured with cayenne. Needless to say, I rejected the consignment. It is attractively got up. The terms were payment on delivery."

A Cure for Rabies.

The present outbreak of rabies recalls the fact that many years ago the disease was believed to be cured by the use of broom (*Cytisus scoparius*). A Russian surgeon affirmed that after the patient was bitten the virus remained in the wound, was then absorbed, and developed under the tongue in small nodules during the first nine days. These nodules, unless opened and cauterised, would lead to re-absorption with fatal results. A pint and a quarter of the decoction of broom was administered every twenty-four hours, and was continued for six weeks, while a daily examination was made of the submaxillary glands. After that period, if no nodules appeared, the patient was regarded as cured. When cauterisation was necessary the decoction was freely used as a mouth-wash and gargle. An old Glasgow paper (the "Glasgow Christian News") recorded forty well-attested cases of cure from this treatment. Whether the cure was due to sparteine or to volatile oil is a matter of conjecture, but the subject is probably worthy of the attention of some chemist bent on research. During April and May the broom-tops are of most therapeutic value.—*Hugo* (16/4).

Legal Queries.

Lux (120/27).—A chemist may not prescribe or recommend remedies for venereal diseases, but this does not interfere with his right to dispense or sell medicines which a customer may require for the treatment of these diseases.

H. B. (117/2) asks what notice must be given before increasing the rent of a house under the new Increase of Rent Act. The house is let at a rent of 55*l.* per annum. [The Act does not confer upon a landlord any right to increase the rent of a house apart from the terms of the lease or tenancy agreement. Therefore before the rent can be increased the existing tenancy must be terminated in the ordinary way, and the date and length of the notice to be given in any particular case will depend upon the circumstances.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. H. G. (108/30) asks us if we can tell him the value of an old bell-metal mortar, stamped "Samuel Gundry 1712 I.F." The height is 11 in., breadth across top 14 in., and it is in an excellent state of preservation. [The value of bell-metal mortars is not a fixed quantity. We have consulted Mr. W. Maskew, Ph.C., Hertford, who is the expert in this matter, and he confirms our opinion as to the impossibility of giving an exact figure. At the same time, Mr. Maskew crystallises his views in the following sentence: "At 12*l.* it is dear to a dealer, but cheap to a collector in embryo."]

Puzzled (110/34).—We do not analyse samples sent us unless it seems likely that the results will be of general interest to our readers.

J. F. (107/55).—Boat-varnish.—A good copal varnish is the best to use for boats. A suitable formula is as follows:

Zanzibar copal	1 part
Linseed oil or manganese boiled oil	3 parts
Spirit of turpentine	1 to 2 parts

The varnish cannot be made economically on a small scale.

I. S. C. (97/52).—Myrobalans.—The fruits sent for identification are those of *Terminalia citrina*, Roxb., nat. ord. *Combretaceæ*. These are chiefly employed for giving a yellow colour to leather, and to a certain extent in tanning, but require to be mixed with other tanning materials, as otherwise the leather is too porous. The fruits are very hard, and require to be ground in steel mills. The astringency and colour are, however, only in the outer fleshy portion not in the hard stone. The small kernel or seed yields a fixed oil There are four fruits known generally as myrobalans, but two only are largely used. The Chebulic myrobalans (*Terminalia Chebula*, Retz) are used in the immature stage as a medicinal astringent. Indeed, the black or immature myrobalans in the form of powder is commonly carried by pilgrims to Mecca to use as an astringent in dysentery and diarrhœa. In the mature stage chebulic myrobalans are largely used for tanning and dyeing. Bellerie myrobalans (*Terminalia bellerica*, Roxb.) are similarly used in India to a large extent, more so than in this country. The fruits are nearly globular, ½-¾ in. in diameter, and the outer surface is downy. *Terminalia citrina* is confused in Indian economic literature with Chebulic myrobalans, being used for the same purposes. The fruit is up to 2 in. long, oblong, lanceolate, obtusely 5-angled, and smooth, and of a yellowish-brown tinge. A fourth drug, known as Emblic myrobalans, is used as a purgative in India, but it is derived from quite a different natural order (*Euphorbiaceæ*). This fruit is the product of *Emblica officinalis*. Full details concerning these myrobalans will be found in Watt's "Dictionary of the Economic Products of India."

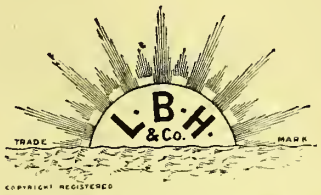
Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 15, 1869

Wholesale Assistants.

A correspondent writes: "I understand that a movement is being made to petition Parliament respecting wholesale assistants—viz., to allow such to pass the modified examination. Now, Sir, I consider that such a thing would be most unjust, for surely any porter, with a slight smattering of the business, will be able soon to style himself 'Chemist by Examination,' while I and many others who have served an apprenticeship of five years, paid a heavy premium, spent both money and time, are compelled to pass two examinations, the fees of which are 5*l.* 5*s.*, whereas any wholesale porter who has swept a warehouse for three years could, at the expense of a guinea and a little cramming, claim precisely the same privileges. Not that I am the least jealous of those qualified to pass the modified, but still I think a higher standing should be given to all who have spent so much more money and time to gain the necessary certificate. Much rubbish falls through a large sieve, and I think the old motto 'Honour to whom honour is due' should not be forgotten."

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Licorice Juice, Sticks, 1 cwt. @ cwt.; 28 lbs. @ lb.; 7 lbs. @ 5/5 lb.
*Lin. Aconiti Metb., 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.
„ Bellad. Metb., 5 lbs. @ 9/6 lb.; 1 lb. @ 9/10 lb.
„ Campb., P.B., 9 lbs. @ 3/8 lb.
„ Sapo Meth., 9 lbs. @ 2/- lb.
„ Tereb. Acet., B.P., 5 lbs. @ 2/10 lb.
Linseed c. Oil, Crushed, 3 cwt. @ 56/- cwt.; 1 cwt. @ 58/- cwt.
*Liq. Ammoni Acetatis Conc. 1-7, 6 lbs. @ 1/10 lb.; 1 lb. @ 2/2 lb.
* „ Ammon. Aromat., 6 lbs. @ 1/2 lb.
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* „ Arsenicalis, B.P., 7 lbs. @ 5d. lb.; 1 lb. @ 8d. lb.
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Mag. Carb. Pond., 7 lbs. @ 1/2 lb.
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Mag. Cit. Gran. 28 lbs. @ lb.; 6 lbs. @ 1/10 lb.
Mag. Sulph., fine druggists', B.P., 1cwt. @ 22/6; 28 lbs. @ 3½d. lb.
Manna, Flake, 14 lbs. @ 7/- lb.; 7 lbs. @ 7/1 lb.; 1 lb. @ 7/2 lb.
Menthol, dry white cryst., 60 lbs. @ 22/- lb.; 5 lbs. @ 23/- lb.
*Mist. Sennæ Comp., B.P., 20 lbs. @ 10d. lb.; 6 lbs. @ 11d. lb.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P. 25 oz. @ 20/6 oz.; 8 oz. @ 21/- oz.; 1 oz. @ 22/6 oz.; Pur. Præcip. Bimeconate or Tart., 1 oz. @ 28/- oz.
Morphinæ Diacetyl., 4 oz. @ 37/- oz.; 1 oz. @ 38/6 oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Guni, English Ground, 28 lbs. @ 4/9 lb.; 7 lbs. @ 4/10 lb.
Naphthalene, Candles, 7 lbs. @ 11½d. lb.
Nux Areca, 1 cwt. @ cwt.; 7 lbs. @ 1/11 lb.; powder, English ground, @ cwt.; 7 lbs. @ 2/10 lb.
Ol. Amygdal. Ang., B.P., 9 lbs. @ 4/7 lb.
Ol. Anethi Ang. B.P., 1 lb. @ 47/6 lb.
Ol. Anisi, E.I., 66 lbs. @ 4/7 lb.; 16½ lbs. @ 4/9 lb.; 4½ lbs. @ 4/11 lb.; 1 lb. @ 5/4 lb.
Ol. Aurant., 12 lbs. @ 13/6 lb.; 1 lb. @ 13/9 lb.; not guaranteed absolutely pure.
Oil of Bays, genuine W.I., 1 lb. @ 17/6 lb.
Ol. Cajuput., B.P., 21½ oz. bots. @ 9/6 lb.
Ol. Camphor. Essent., White, 40 lbs. @ 1/7 lb.; Brown, 40 lbs. @ cwt.
Ol. Caryoph. Ang. B.P., 9 lbs. @ 10/- lb.; 4½ lbs. @ 10/6 lb.

Ol. Cassiæ, 16 lbs. @ 8/9 lb.; 6 lbs. @ 8/10 lb.
Ol. Cinnam., 1 lb. @ 89/- lb.; 1 oz. @ 6/- oz.
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Ol. Coco Nucis, finest White, 80 lbs. @ 1/- lb., 40 lbs. @ 1/0½ lb.
Ol. Eucalypt., P.B., 1 cwt. @ 3/2 lb.; 28 lbs. @ 3/4 lb.; 9 lbs. @ 3/7 lb.
Ol. Geranii Gall. Opt., 1 lb. @ 34/6 lb.; 8 1 oz. bots. @ 2/6 oz.; 1 oz. @ 2/9 oz.; Turc. 1 lb. @ 19/6 lb.; 4 ozs. @ 20/6 lb.
Ol. Gynocardiæ, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 34/6 lb.; 1 lb. @ 35/- lb.
Ol. Mentb. Pip. English, 5 lbs. @ 120/- lb.; 1 lb @ 122/6 lb.; Hotchkiss original bots., 21 oz each @ lb.; 6 bots. @ lb.; 18 bots. @ lb.; American, 20 lbs. @ 40/- lb.; 4½ lbs. @ 40/6 lb.; 1 lb. @ 41/- lb. Japanese, 60 lbs. @ 5/10 lb. 5 lbs. @ 6/6 lb.
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Ol. Myrbane, 9 lbs. @ 3/- lb. [tins @ 22/- gall.
Ol. Myristicæ, 7 lbs. @ 15/- lb.; 1 lb. @ 20/- lb.
Ol. Nucis Pallid., 2 gall tins @ gall.
Ol. Oliv., P.B. good yellow, guaranteed pure, 45-gall. barrels @ 16/6 gall.; 2 gall. tins @ 18/6 gall.
Ol. Peach Kernel (so-called), 1 cwt. @ 3/6 lb.; 56 lbs. @ 3/8 lb.; 9 lbs. @ 3/9 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 54/- lb.; 1 lb. @ 54/6 lb.
Ol. Sassafras, genuine, 28 lbs. @ 16/- lb.; 1 lb. @ 16/6 lb.
Ol. Theobromæ, B.P., 8 oz. tabs., 28 lbs. @ 3/- lb.; 7 lbs. @ 3/1 lb.
Ol. Wintergreen, Artificial, 5 lbs. @ 4/11 lb.; 1 lb. @ 5/6 lb.
Opium, B.P., 14 lbs. @ 75/6 lb.; 3 lbs. @ 77/- lb.; 1 lb. @ 77/6 lb.; powder, 6d. lb. extra.
Otto Rosæ, finest, 1 oz. at 95/- oz.; No. 2, 1 oz. @ 60/- oz.
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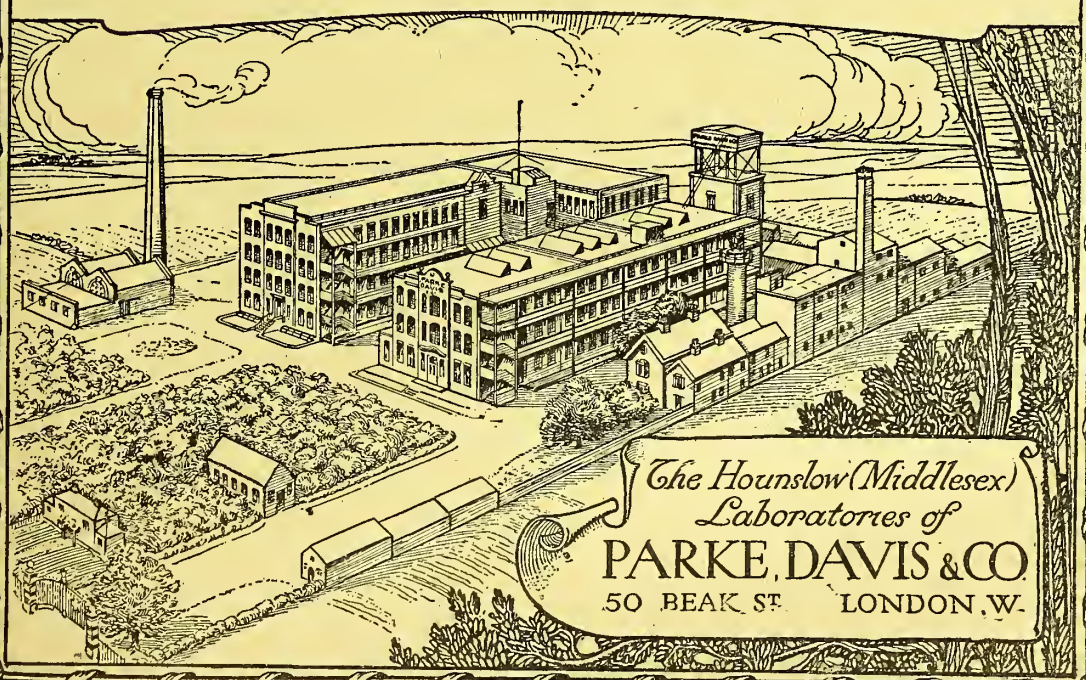
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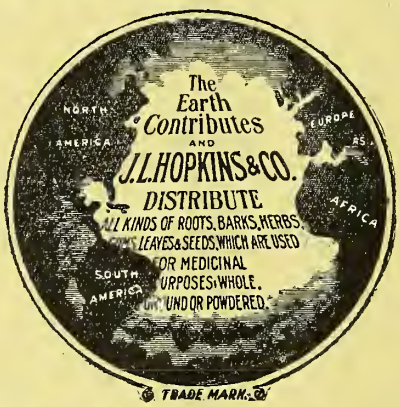
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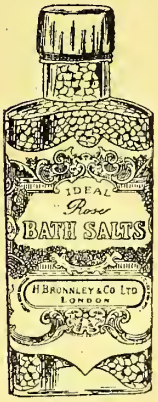
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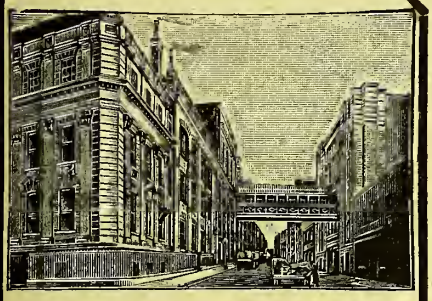
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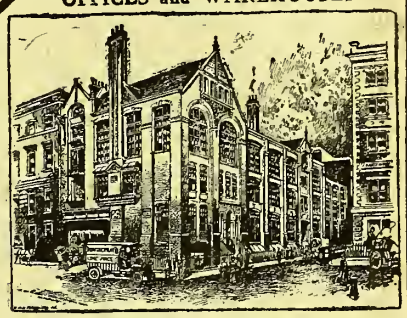


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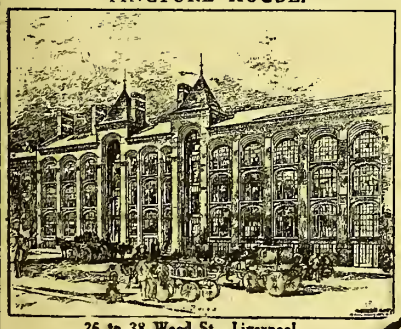
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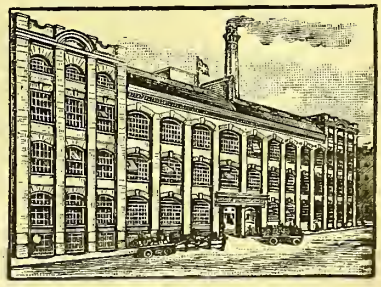
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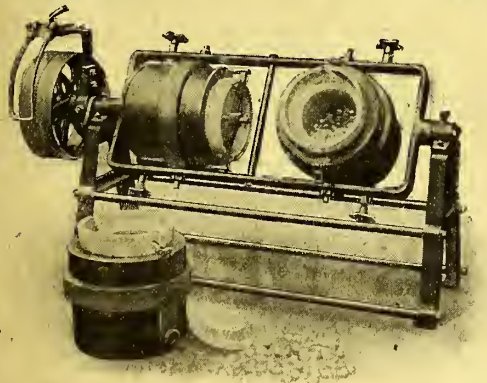
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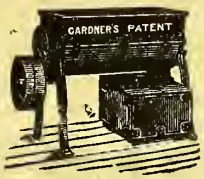
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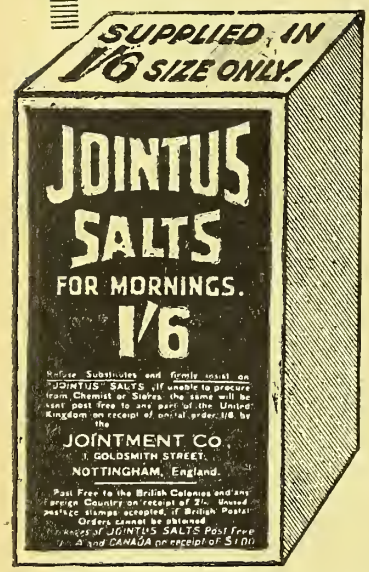
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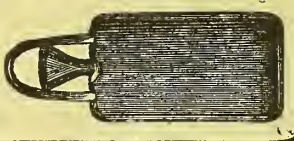
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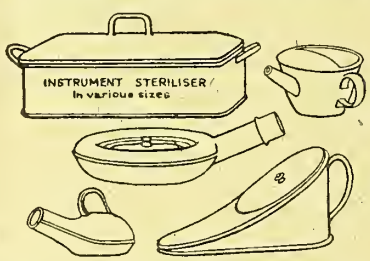
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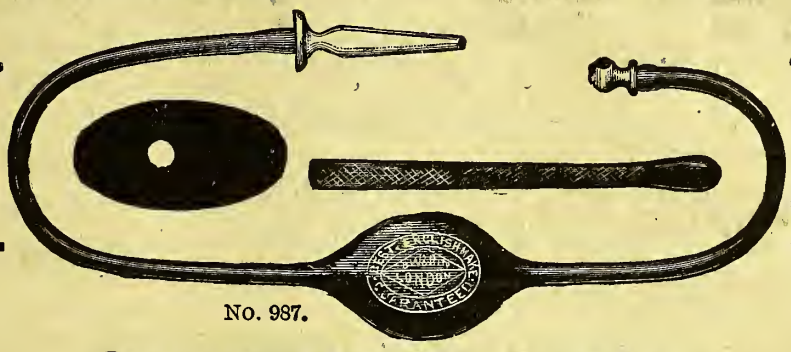
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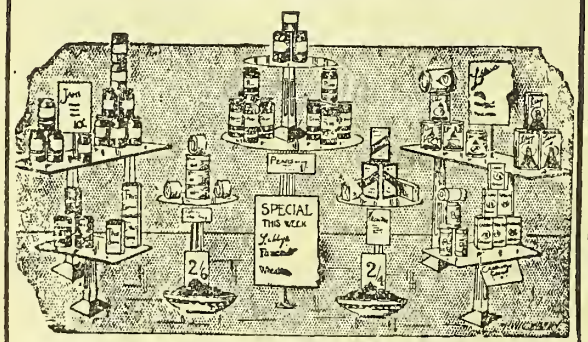
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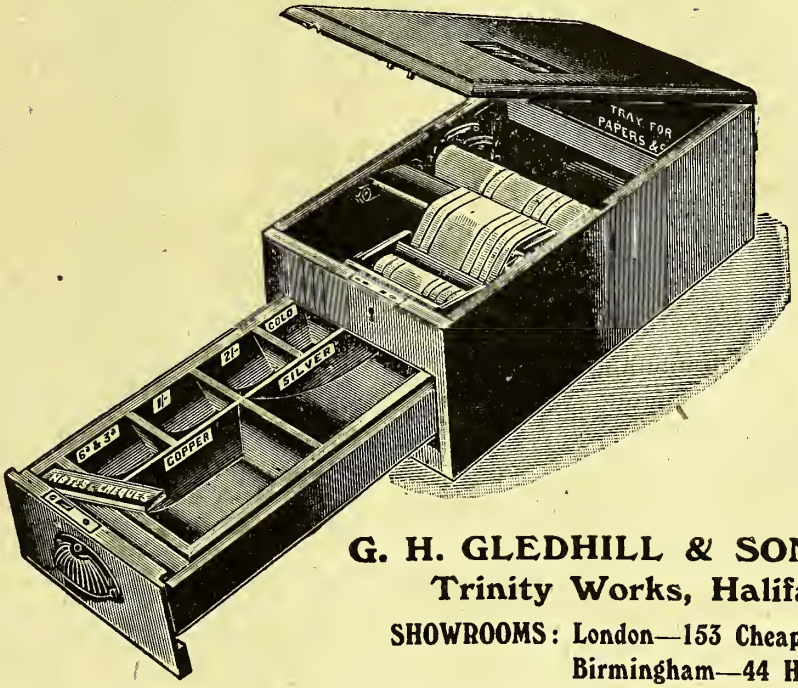
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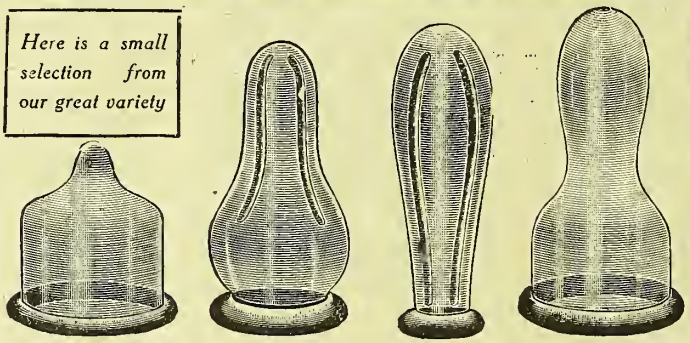
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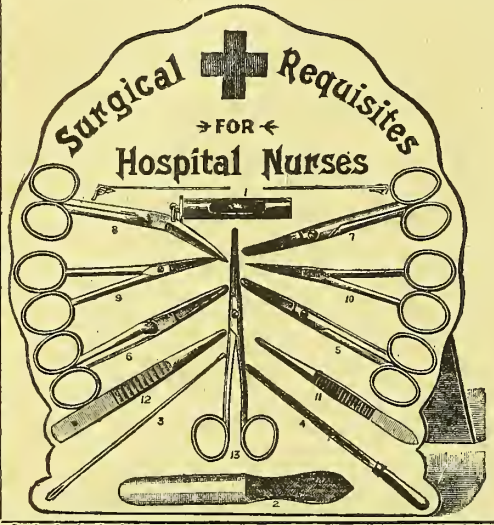
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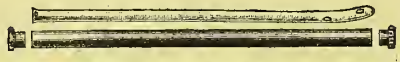
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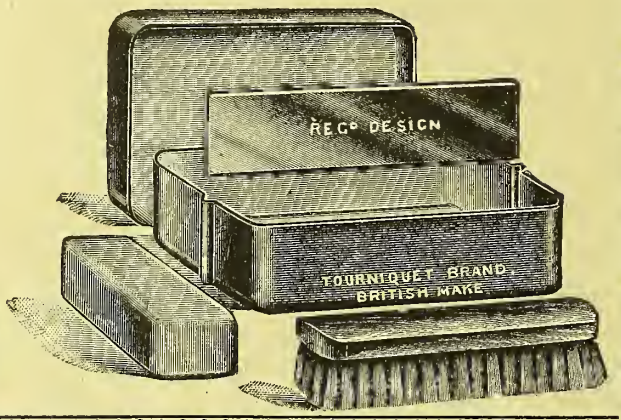
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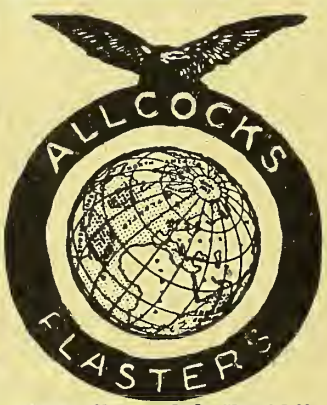
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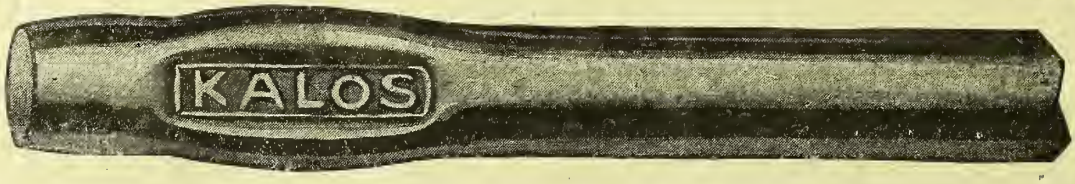
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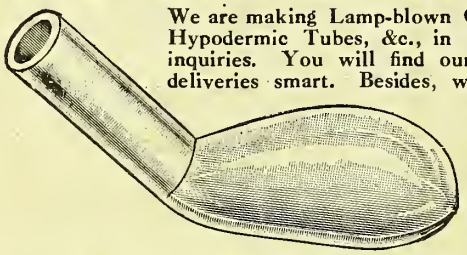


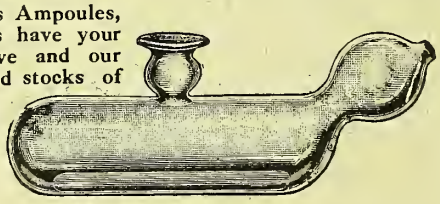
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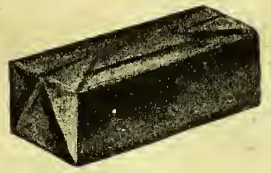
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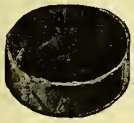
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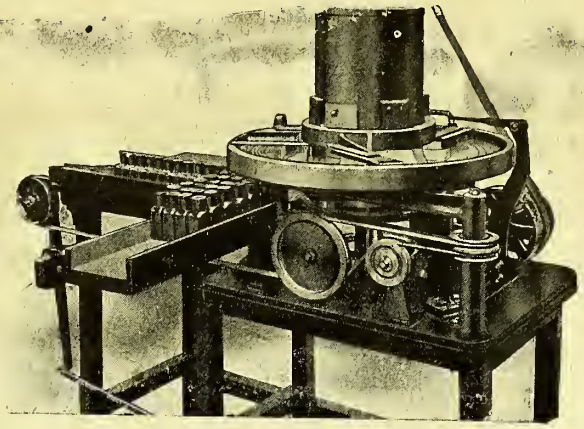
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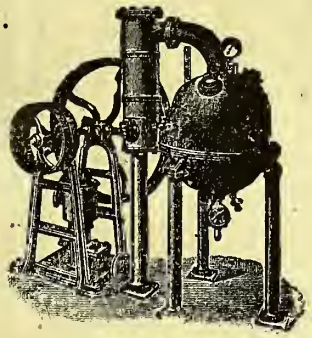


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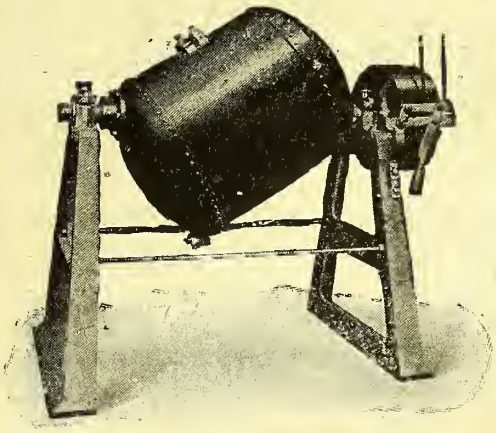


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Dahlia Stakes, pitch pine, tarred and pointed ends painted green, 5 ft. × 1½ in. 12/- doz. 4 ft. × 1 in., 8/- doz.

Fumigants, Insecticides, etc.

"Nicoticide" Fumigating Compound, quoted left-hand corner.
Nicoticide Plant Wash, 15/- gall., less 25 p.c.
MacDougall's Sheets, 9/- doz.
MacDougall's Fumers, 1,000 cubic ft. 9/-, 2,000 cubic ft. 13/6 doz.
Hungowcide, 10/6 per cwt.
Tobacco Paper, 35/6 cwt.
Auto Shreds, 9d., 1/3, 3/6, 4/6, 6/-, 10/9, 30/-, 42/- doz.
Quassia Extract 1/- and 2/- tins. 9/- and 16/- doz.
Cirengol, 5/6 per doz. tubes.
Tobacco Juice, 3/- per gallon.
"Bordorite" Potato Spray, 2/- and 3/9 jars; 19/- and 36/- doz.
Abol Insecticide, half pint, 1/3; pint, 2/-; quart, 3/-; half gallon, 5/-; gallon, 8/9 Less 25 p.c.
"Katakilla," 2/- Less 25 p.c.
"Gishurstine," 6d. packets, 4/6 doz.; 1/- packets, 9/- doz.

Sweet Pea Netting

STEAM TARRED.

6-inch mesh.

100 ft. × 6 ft., 47/6
50 ft. × 6 ft., 24/6
100 ft. × 4½ ft., 39/-
50 ft. × 4½ ft., 20/-

An excellent trainer for Sweet or Edible Peas.

GARDEN NETTING, tanned, 1-in. mesh 50×4, 100×2, 25×8, 32/6 pad

Superphosphate of Lime 8/9 cwt. Sulphate of Ammonia 19/3 cwt. Basic Slag 6/6 cwt.

Sulphate of Potash 7/- cwt. Bone Meal 27/6 cwt. Garden Lime 5/6 cwt.

8/6 cwt., 5 cwt. 40/-

Bags Free, Carriage Forward.

"GUANOA"

An excellent Fertiliser for POTATOES and all vegetable Crops.

Sulphate of Iron 18/- cwt. Sulphate of Copper 60/- cwt. Washing Soda 12/- cwt.

Soft Soap 21/6 half-cwt. keg. Sulphur Powder 37/6 cwt. Silver Sand 3/6 cwt.

Bordeaux Mixture

In half-pound tins, sufficient to spray 140 square yards of Potatoes once.

ONE SHILLING

Trade 9/- per doz.

Garden Tools, etc.

Cultivators, 5-prong, 6/-; 3-prong, 5/-
Pull-easy Cultivators, 4-prong, 4/-; 5-prong, 6/-
Ideal Hoes and Ploughs, handled, 3/9.
Hand Forks and Trowels, 6/6 doz.
Secateurs, 8 in., 30/-; 9 in., 35/- doz.
Daisy Grubbers, 12/- doz.
Pruning Knives, 25/- and 27/6 doz.
Budding Knives, 54/- and 60/- doz.
Vine Scissors 32/- doz.
Garden Shears, 8" 8/-; 9" 9/- each.

Sprayers and Syringes.



Florist Friend Syringe, movable swivel, rose, etc., and drip protector. 1 in.×14 in., 13/-; 1 in.×20 in., 15/- each.
Garden Syringe, rose and jet, and drip protector, 1¼ in.×16 in., 12/6 each.
Knapsack Sprayer, 70/- complete. Sovereign Sprayers, 42/- doz.
Bottle Sprayers, 3/- each Bucket Sprayers, 22/6 each.

GOW'S Potato and Vegetable Manure.

Packed in 14-lb. bags.
20/- cwt. Wholesale, bags free.
Retailed at 14 lb., 4/6; 28 lb., 8/6.
56 lb. 16/6, 112 lb. 32/-

Twines, etc.

Tomato, 2, 3 and 4-ply, 1/4 lb.
Carnation Twine. 5/- doz. lb.
Tarred Twine, thin, medium, thick, in balls, 22/6 doz. lb.
Garden Lines, 30 yds. 12/-, 60 yds. 23/- doz.
All kinds of Cotton and Hemp Twines; particulars on application.

Tobacco Powder.

2/6, 1/-, and 6d. tins, less 33⅓ p.c.

Lawn Sand.

2/6, 1/- and 6d. tins, less 33 %

All in Decorated Tins.

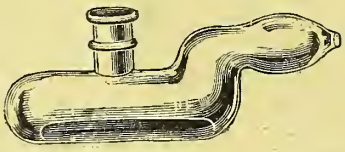
Also in Bulk. LAWN SAND, 17/- per cwt. TOBACCO POWDER, 26/- per cwt.

SUNDRIES.

Aprons, 42 in., bib and pocket, 9/- each, serge.
Agricultural Salt, 10/6 cwt.
Arsenate of Lead Paste, in tins, 1/6 and 2/10 ea.
Buttonhole Tubes. "Perfect," 8/- doz.; 7/6 doz. gross lots.
Birch Brooms, without handles, 6/6; with handles, 8/6 doz.
Carnation Clips, 2/- box.
Chase's Beetle Destroyer, 6d. and 1/- tins; 4/6 and 9/- doz.
Cocoanut Fibre, 5/- per bag.
Charcoal, Lump, 20/-; Fine, 12/6 cwt.
Cane Baskets, 4/- each.
Cast Iron Wall Nails, 1¼", 1½", 1¾", 33/- cwt.
Dean's Wall Shreds.
Felt Discs for Cabbage Maggot, 7/6 per 1000.
Garden Pencils, Wolffs', 34/- gross.
Garden Gloves, Leather, from 42/- to 57/- doz.
Gloves, Rubber, 7/6 per pair.
Gishurst Compound, 1/3 and 3/6 tins, less 25 p.c.
Hellebore Powder. 9d. and 1/6 tins, less 25 p.c.
Leaf Mould, 4/- bag.
Mushroom Spawn, 4/3 bushel.
Powder Bellows, 6/- doz.
Peat, Brown fibrous, 7/6 bag.
Peat, Orchid, 10/- bag.
Shading, Elliot's, 1/6 and 2/- packets: 12/- and 16/- doz.
Tiffany, No. 1, 4/- piece.
Tree Grease, 1/6, 2/6, and 4/9 sizes, less 25 p.c.
Tobacco Horse Dipping Powder, 7 lb. 2/-; 14 lb. 3/6
Tissue Paper, White, 12/6 ream.
Tissue Paper, Coloured; prices on application.
Thermometers, 8 in. boxwood scale, 18/- doz.
Vaporite, 15/- per cwt., less 25 p.c.
Verbena Pins, 12/6 doz. boxes.
Wire Baskets various; prices on application.
Wood Wool 32/- per bale.
Wreath Frames, Wire. See Special List.
Worm Powder, 30/- cwt.
Wadding, 4/6 doz. sheets.

Items of Interest!


No. 15



ASEPTIC GLASS NASAL IRRIGATORS.

Each in labelled box, per doz. 6/6
loose, „ 4/6

EAR TRUMPETS. OXYDISED METAL. TELESCOPIC.

No. 15. Banjo pattern, 11½ in. extended ... each 9/9
No. 22. Spun Metal, 1 slide, each 8/6; 2 slide „ 9/6
No. 23. Shell pattern, ordinary small size ... „ 6/-

Usual 5% discount.


No. 22

TOOTH BRUSHES.





A DOZEN GOOD NUMBERS SELECTED FROM STOCK.

WE HAVE MANY OTHERS.

BONE HANDLES.

No.	Rows.		Per doz.
B527.	4.	Trepanned, assorted patterns	12/-
B559.	4.	„ Hygienic ...	9/-
B537.	4.	„ ...	8/-
B621.	3.	„ Prophylactic	8/-
B624.	4.	„ assorted, in ¼-gross boxes	4/6

CELLULOID HANDLES.

No.	Rows.		Per doz.
B581.	4.	Assorted patterns and styles	6/6
B564.	4.	„ „	6/6
B556.	4.	„ stamped, extra fine quality	6/-
B580.	4.	„ patterns ...	6/-

No. B645. 3 rows. Bone Handle, Hygienic, Child's ... per doz. 4/6
„ B574. 4 „ „ „ assorted, „ ... „ 4/9
„ B646. 3 „ Celluloid Handle, „ ... „ 4/6

Usual 5% discount.

MAY, ROBERTS & CO., LTD.

7/13 CLERKENWELL RD., E.C. 1, & 16 WESTMORELAND ST., DUBLIN.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, APRIL 26, 1919.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion
REMITTANCES MUST ACCOMPANY INSTRUCTIONS.
Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done
PROVIDED the MONEY is TELEGRAPHED
at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

LONDON (West End).—Old-established Business; Dispensing Retail; position unique; returns upwards of £2,500; profits large residence with private entrance; price about £1,050.

KENSINGTON.—Very old-established Business; present hands ars; now retiring; returns £1,500; present rate; scope for pment under energetic management; price £600.

LONDON, S.W.—High-class Dispensing and Retail Business; ent position in main thoroughfare; returns £4,000; *net* 25 *per cent.*; handsome well-appointed shop, fully stocked; to be agreed equitably.

LONDON, N.W.—Well-appointed shop, situate in busy main ghfare; essentially Dispensing and good middle Retail returns over £2,000; *net profit* £600; price £1,600, or ill and valuation.

KING'S CROSS (Within Easy Distance of).—Old-established ss in good position in populous district; the net income 6, and under energetic management can be increased; good rent £50; price £600.

LONDON, S.E. (Distant Suburb).—Dispensing and Retail ss; corner position in main thoroughfare; returns exceed ; *net profit between* £850 *and* £900; large shop and com- e residence; price about £1,900.

ALSTON (Near).—Ready-money Business; corner position, pping thoroughfare; returns, under Assistant, £17 weekly; scope for extension; rent £60; sublet £85; held on lease; £300.

8.—EAST COAST (Seaport).—Wholesale Business in Druggists' Sundries, etc.; turnover last year £11,000; good profits; excellent opening for two energetic men; part payment would be considered; open to the fullest investigation.

9.—EASTERN COUNTY (Market Town).—Brisk Retail Business; returns between £8,000 and £9,000; *net profit for three years* £1,147 *yearly*; large premises; vendor's own property; terms, valuation and sum for goodwill to be agreed.

10.—CHELTENHAM (Death Vacancy).—For immediate disposal for less than the value of stock and fixtures, good-class Retail and Dispensing Business, returning between £1,200 and £1,300, with scope for extension; large residence; rent £55.

11.—EPPING FOREST (Near).—Ready-money Business; established many years; returns, present rate, £1,500, at good prices; rent moderate; long lease; no immediate opposition; price £500.

12.—KENT.—Unopposed Business, comprising good-class Family trade with general county Retail; returns average £1,200 per annum; *net profit approximately* £300; comfortable residence; rent £40; held on lease; price £600.

13.—LANCASHIRE (Health Resort).—Cash Retail Business; good position; returns £2,700; *net profit* £900; the turnover might be materially increased under qualified management; further details on application.

14.—L. AND N.W. MAIN LINE.—For immediate disposal, an established Business, Wholesale and Retail, situate in centre of large manufacturing town; returns over £8,000; good profits; rent £60; large house; price about £3,000.

VALUATIONS FOR STOCKTAKING.

O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value siness, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.
Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.
ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—MIDLANDS.—Sound progressive Cash Retail in growing locality; returns over £2,100; *net profit* £750; handsome modern-fitted Pharmacy; fine position; well stocked; modern-built premises; low rent; owner retiring; price £1,500; only cash buyers entertained.

2.—WESTERN COUNTY (Inland Health Resort).—First-class Dispensing and Light Retail for Sale through death; returns about £1,250; has done much more and can again; good residence; low rent; handsome Pharmacy, heavily stocked; price £950.

3.—KENT.—Genuine Herbal and Drug Stores for immediate Disposal in large fashionable town; returns £12 to £14 a week; *net profit* £5 to £6 *weekly*; low rent; long lease; small house; price £250; suit unqualified.

4.—LONDON, S.E.—Sound Cash Retail and Prescribing, with N.H.I., in working-class district; returns under Manager £2,000; *net profit* £600; eight-roomed house; low rent; well stocked; price for quick sale £600 cash.

5.—SOUTH LONDON (Close to City).—Brisk Cash Business for Disposal; returns nearly £40 a week; good profits; splendid corner position in busy main road; fully stocked; good modern premises; price £300, and stock at valuation.

6.—LONDON, S.W.—Good-class Retail and Dispensing Business, increasing; returns, over £1,100; *net profit* £330; good house; well fitted and stocked; price £500.

7.—LONDON (Western Suburb).—Light Retail Dispensing and Photographic Business; returns over £1,350; *net profit, about* £500; large handsomely fitted shop, fully stocked; price £800, or £100 and valuation; trial can be had.

8.—LONDON, N.—Light Family Retail and Dispensing, with good Optical connection; returns £1,400, increasing; *net profit about* £400; well fitted and stocked; small house; price £750, or near offer; recommended.

9.—LONDON (Essex Suburb).—Profitable Light middle-class Cash Retail; practically unopposed; returns about £1,500; *net profit* £436; books properly kept; well fitted and fully stocked; price £500.

BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £3,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

Toplis & Harding

Will SELL BY AUCTION at their AUCTION ROOMS, 137 CHEAPSIDE, E.C., on

WEDNESDAY, APRIL 30, 1919,

a large Quantity of

Chemicals including 25 tons Crude Caustic Soda, 50 tons Caustic Soda, 45 tons Napth. Crystals, 2½ tons Glauber Salts, 23 tons Soda Crystals, 5 tons Epsom Salts, 24 cwt. Nit. Ammonia, 23 tons Soda, 2½ tons Sodii Sulph., 1 ton Precipitated Chalk, 18 cwt. Vitriol, 200 lbs. Dental Rubber, 2 tons Soda Bicarb., 9 cwt. Borax, 10 cwt. Borax Crystals,

also

Drysaltery, Tinned Goods, etc. including 150 cases Pale Yellow Soap, 5 cwt White Milling Soap, 50 cases Greenwich Yellow, 8 barrels French Olives, 150 cases Sardines, 85 cases Jap. Veg table Wax, 1½ tons Manganese Rosinate, 500 cases Candles, 8½ tons Sweetened Block Chocolate, 1 ton Oblong Glue, 25 cases Candles, 3 gross bottles of Sauce, 100 doz. Combs, Scrubbing Brushes, Rolled Oats, Corn Meal, Caseine, Eno's Fruit Salt, 4 cwt. Californian Honey,

also

Paper, Boards, Rope, etc.

comprising **45 tons Wrapping Paper** (various), **500 gross Cardboard Boxes, 500 kegs Steel Staples,** 3 tons Sanitary Paper, 5 tons Brown Rope, 1 ton Grey Boards, 4 cwt. Grey Wrapping, 10 reams Pink Note Paper, ¼ ton Dutch Strawboards, 4 tons English Grey Boards, etc. etc.

Catalogues may shortly be obtained of

Messrs. TOPLIS & HARDING, 28 Old Jewry, LONDON, E.C.

Note: Auction Sales conducted weekly—Terms on Application.

BRETT & CO.

Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

£5,000 RETURNS. NORTHERN CITY.—Old-established Business, with one-fourth sales in own Proprietaries; plenty of scope for increase with personal attention; price £3,000.

£3,500 RETURNS. SOUTH.—General Mixed Retail in populous district; profits good; price £2,000.

£1,000 RETURNS. MIDLANDS.—Nice class Retail; present hands many years doing a steady trade; price £650.

WE HAVE BUYERS FOR ALL CLASSES AND SIZES OF GENUINE BUSINESSES.

SALES BY AUCTION.

G. R.

BY ORDER OF THE NAVY AND ARMY CANTEEN BOARD.
AT THE WESSEX DRILL HALL, ST. PAUL'S ROAD, PORTSMOUTH
(5 minutes from the Portsmouth Town Station).

MR. LOUIS TREDINNICK, F.A.I., in conjunction with HALL PAIN & GOLDSMITH, is instructed to Sell by Auction, above, on MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, and SATURDAY, MAY 5th, 6th, 7th, 8th, 9th, and 10th each day at 10.30 a.m., a LARGE QUANTITY OF DRUGISTS' STORES, including Shaving Soaps and Mirrors, Fullers Earth, Violet Powder, Seidlitz and Foot Powders, Tooth Powders and Pastes, Dental Cream, Cold Cream, Glycerine and Lime Cream Tartaric and Boracic Acid, Hair Oil, Brilliantine, Vaseline, Scott's Emulsion, Owbridge's Lung Tonic, Eno's Fruit Salts, Epsom Salts, Liver Pills, Soda, Tooth, Nail and Hair Brushes, Razor Strops, Sponges, etc., also FURNITURE, TIMBER, CHINA, GLASS, HARDWARE, AND DRAPERY. Lotted to suit all buyers.

On view April 22nd and 23rd.

Catalogues, price 3*d.* each, may be obtained of Mr. Louis Tredinnick, F.A.I., 199 Piccadilly, W.; the Navy and Army Canteen Board, 204 Tower Bridge Road, S.E. 1, and Clarence Parade, Southsea; and of Messrs. Hall, Pain & Goldsmith, 57 Commercial Road, Portsmouth, and at Fareham and Petersfield.

LEGAL.

RE PROFESSOR NORMAN SCOTT RUDOLF, Deceased. Pursuant to the Act of Parliament of the 22nd and 23rd Vict. C. 35. Notice is hereby given that all CREDITORS and other persons having any claims or demands against the Estate of NORMAN SCOTT RUDOLF late of the Royal Automobile Club and 28 Pall Mall in the County of London Esquire deceased (who died on the 29th day of January 1919 and whose will was proved in the Principal Registry of the Probate Division of His Majesty's High Court of Justice on the 2nd day of April 1919 by Francis Chatillon Danson Esquire and George Rudolf Esquire the Executors therein named) are hereby required to send in the particulars of their claims or demands to the undersigned the Solicitors for the Executors, on or before the 20th day of May 1919 after which date the said Executors will proceed to distribute the assets of the said deceased amongst the persons entitled thereto having regard only to the claims and demands of which they shall then have had notice and they will not be liable for the assets of the said deceased or any part thereof so distributed to any person or persons of whose claim or demands they shall not then have had notice.

Dated this 16th day of April 1919.

WIGAN' CHAMPERNOWNE & PRESCOTT
Norfolk House Victoria Embankment
London W.C. 2. Solicitors for the said Executors.

PARTNERSHIPS.

MANAGER or Partnership, with view to early succession good, sound Business in Midlands; cash available. Apply 123/3, Office of this Paper.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

KENT.—Old-established Light Retail Prescribing and Dispensing Business; unopposed; returns over £1,300; nice house and garden; low rent; held on lease; satisfactory reasons for disposal. For full particulars apply 112/14, Office of this Paper.

LONDON.—Chemist's Business in good working-class district; small, compact, double-fronted shop in main thoroughfare, with house attached; suitable as residence or letting off; showing good, profitable returns in Retail and Insurance Dispensing; price £300, about value of Stock and Fixtures. Further particulars, "Salvolatile" (120/38), Office of this Paper.

LONDON (Outer Suburb).—For immediate Disposal, very old-established (unopposed) Cash Prescribing and General Retail Business; only changed hands once; returns over £1,400 year; well stocked; splendidly fitted; business increasing rapidly; moderate rent; long lease; excellent position, main road; popular residential district; price £500 or near offer; only qualified need apply. "Calendula" (123/14), Office of this Paper.

MIDLANDS.—An established profitable Prescribing Business for Sale; cash only; owner retiring from Retail; turnover £1,000 per annum; grand opportunity for energetic man; also good opening for Dentistry; price of business £400. Address in first instance to "H.," c/o Bayley, 87 Horseley Heath, Tipton, Staffs.

YORK.—A good, all-round Retail Business for Disposal; returns £2,500; an excellent house attached; the above held by owner 20 years; giving up business; the property can be leased or bought. Parker, Chemist, Micklegate Bar, York.

A SNIP.—Position excellent; newly-fitted Pharmacy; market place; splendid residential neighbourhood; West London; much neglected; very low expenses; good living for smart man with £300; Dentistry and Optical practice could be taken over; long lease. Apply 117/37, Office of this Paper.

BRISK Light Retail Business in S.W. seaport; easily worked; low expenses; to an energetic man not afraid of work a veritable gold mine; cash price £1,500; proprietor (retiring) owns the property, which has good living accommodation, and would sell outright or grant lease as desired. Apply 119/9, Office of this Paper.

CHELTENHAM.—For Disposal, Light Retail, Dispensing, and Photographic Business; good Proprietary Preparations; well-stocked shop, on lease, with excellent house, bathroom, private entrance; good position; main thoroughfare; owner retiring after being in business over 40 years; capital required about £800. Apply Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

FOR Sale, the Business of a well-known Proprietary Medicine; established many years. Full particulars from "X. Y." (127/11), Office of this Paper.

FOR Sale, Business of a well-known registered Patent Medicine, which has forged ahead for over 60 years on its intrinsic merits; patronised by Royalty, and possessing Royal testimonials; 90 per cent. of the customers recommend it; fortune to be made with well advertised; ill-health sole cause of selling; no plant or machinery; distribution entirely through London Wholesale houses and few well-known Retail firms; turnover £2,000 per annum; net profits £1,100, with small employment of female labour; every investigation; hundreds of unsolicited testimonials; what offers? or would entertain partnership. [Will the firms and individuals who replied to this advertisement please note the price, £8,000 or nearest offer? Latest order received from one of the leading Retail houses £132.] Apply 64/150, Office of this Paper.

FOR immediate Sale, owing to death of proprietor, old-established Business in improving provincial town; returns about £2,000; capable of great extension; no N.H.I.; Stock and Fixtures at valuation, about £700. Apply to J. W. Bodger, Chemist, 45 Broadway, Peterborough.

OPPORTUNITY for young man with energy and a little capital; Dispensing Business, London, W., doing about £900, with good profits; low rent; excellent position; all side lines neglected; solely family reasons for disposal; sale during May essential. "Executor," 7 Fulham Place, Maida Hill West, W. 2.

£400 WILL purchase the Proprietorship of a very lucrative Business in Horse and Cattle Medicines, etc.; previous to the war a big trade was done with racehorse owners, trainers, stud establishments, farmers, etc., in Belgium, France, and the British Isles with my specialities; for the recipe of one I gave £100; I have other very important engagements and cannot give this business any attention; this is really a good investment for a good business sportsman; a good income for a very little outlay. Write "Epsom," 953, Sells' Advertising Offices, Fleet Street, E.C.

FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

FOR SALE.

EXPIRATION OF LEASE. Entire Fittings and Stock, with Shop Rounds, Cases, and Contents of Shop. Valuation of Stock and Fixtures £175, January 1919. Can be transferred to another shop in the immediate district and conducted as going concern.

Orders to view by appointment only, Tuesday preferred.

Best offer over £125 takes it. Must be cleared in ten days' time as owner going abroad.

Apply 117/25, Office of this Paper.

PROFITABLE good-class Chemist's Business, situated in centre of best suburb of West of England city; present returns about £900, without side lines of any description, but plenty of scope for such if desired; splendid opportunity for beginner with good Dispensing experience; price £700, or near offer. Apply 119/25, Office of this Paper.

WINDOW Enclosure (Sage), mahogany, air-tight, three panelled plate mirror doors, adaptable 7 or 10 ft. wide, 5 or up to 10 ft. high; standard bars, brackets, polished shelves, Sanderson, 5 × 4; Ross Homocentric f.6.3; Unicum; two Model Printing Presses, Type, Sundries; four Office Telephones. Moore, 166 Earls Court Road, S.W. 5.

7 WINCHESTER'S Inf. Senegæ Conc., i to vii, at 4s. 6d. lb.; one W. of 5 lb., carriage paid for 23s. 3d.; cash with order. John Noble, Pharmacist, 17 Owen's Row, London, E.C. 1.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

MANCHESTER District.—Good-class Business wanted (at once). State full particulars, in confidence, to Mr. Johnson, c/o John Quilliam & Co., Ltd., Canterbury Works, Victoria Bridge, Manchester.

MANCHESTER or District.—A thoroughly genuine Business wanted for prompt cash, returning upwards of £2,500, with scope for increase; fullest particulars in first letter to save unnecessary delay; state if living accommodation attached; all communications treated in strict confidence. Apply "Primus" (123/39), Office of this Paper.

SOUTH or South-West England Coast preferred; Pharmacist requires a genuine Business; town or village; Dispensing, General, or Agricultural; neglected, or Drug Stores not objected to; net profit about £300 upwards; partnership also given serious consideration. Full particulars, treated in confidence, to "Statim" (119/130), Office of this Paper.

SOUTHERN Counties (coast preferred) or London suburb.—Cash Retail and Dispensing Business with good house accommodation, showing net profit not less than £400 per annum. Full particulars to 117/29, Office of this Paper.

G.E. RAILWAY, Main Line from London to Norwich.—Wanted, Business, situated on above Line, or good connection with same, with scope for increase. Give particulars of takings, expenses, and approximate price to "N.C.O." (82/6), Office of this Paper.

MIXED, unopposed country Business, without N.H. Insurance; about £1,500 returns; old established; cash transaction. State the fullest details and price to "Nepaul" (123/6), Office of this Paper.

SOUND Light Retail and Dispensing Business wanted in pleasant and healthy district of Lancs (Liverpool suburb or district preferred), Yorks, Cheshire, or Derbyshire, showing at least a net profit of £400. Full particulars (treated in strict confidence) as to takings, class of business, opposition, etc., to "Salol" (119/6), Office of this Paper.

SOUND Business wanted showing about £400 a year net profit; living accommodation required; Midlands or North-West preferred; ready cash; please give fullest particulars when replying; replies treated as strictly confidential. "Pharmacist" (123/7), Office of this Paper.

SOUND Business required by Chemist, showing net profit of not less than £500 or £600; Lancs or Yorkshire preferred; please give full particulars (confidential), stating price for ready cash. Apply 122/3, Office of this Paper.

WANTED, small country Business, or Partnership entertained; house with garden preferred. Apply 119/35, Office of this Paper.

TO LET.

FACTORY Premises, near London Bridge; 4 floors, 27 ft. × 26 ft.; rent £70 per annum; unexpired lease 13 years for Disposal; suitable for Chemical Manufacture. Apply 119/40, Office of this Paper.

AGENCIES.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

PORTUGAL.—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug products desires to represent first-class houses manufacturing Ink Powders, Chemical Colours, and Chemical Products generally, for all industries; successful results guaranteed; good references. Address 17/15, Office of this Paper.

AGENCIES.—A.I.F. man, connected with good Manufacturing Company whose travellers cover Queensland (Australia), open to consider Agencies for this State; bank reference. Apply 120/17, Office of this Paper.

TO EXPORT MERCHANTS AND AGENTS.

DURING the war the proprietors of Glaxo have extended their manufacturing resources to such an extent that with the advent of Peace they will be in a position to cater for all Colonial and Foreign markets. Firms having their own organisations abroad, who would like to be associated with them in this world-wide extension of trade, would oblige by communicating in writing in the first instance with Export Manager, Glaxo, 155-7 Great Portland Street, London, W. 1.

FIRM of Agents, with offices in Winnipeg and Representative in London, desires first-class Agencies for Canada. Address in first instance, Box 4421, A. Hyams & Co., Ltd., 10 Essex Street, W.C. 2.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

RETAIL.

ASHTEAD.—Wanted, Junior Assistant; lady or gentleman; short hours; good salary. Apply B. C. Browell, Pharmacist, Dorking, Surrey.

BEACONSFIELD.—A Junior Assistant, lady or gentleman, required for a Dispensing business; outdoors; one who has had a regular apprenticeship in a first-class business preferred. State particulars of experience and salary required, and enclose photo, to Mr. Brooke, Chemist, Beaconsfield.

BIRMINGHAM.—Qualified Assistant required at once; salary £5 per week for Counter and Dispensing. Apply 118/28, Office of this Paper.

BRIGHTON.—Smart Junior for high-class Dispensing business; outdoors. State experience and salary required to Watts & Co., 114 Church Road, Hove.

BROADSTAIRS.—Junior Assistant required in a good-class Retail and Dispensing business on the South-East Coast; must be a good Counterman and a reliable Dispenser. State age and salary, if possible send photo, Julian Horrell & Son, The Pharmacy, Broadstairs.

BOURNEMOUTH.—Assistant; qualified or unqualified; good Dispenser. State age, salary required, references, enclosing photo, to Frank Rye, Pharmacist, Bournemouth West.

CAMBRIDGE.—Assistant required with good Dispensing experience. Apply, stating full particulars and salary (outdoors), S. F. Barker, 46 Chesterton Road, Cambridge.

CHANNEL ISLANDS (Jersey).—Competent Assistant wanted for high-class Dispensing and Retail; must have had good Dispensing experience; weekly half-holiday, no Sunday duty. Apply, stating salary required (outdoors), and full particulars of experience, age, etc., to F. G. de Faye, Pharmacist, St. Helier, Jersey. (Postage, 1½d.)

CROYDON.—Junior (unqualified) Assistant required. State experience and salary required in first letter, W. E. Matthews, Ltd., 40 George Street.

FOLKESTONE.—Competent Assistant, with good Dispensing and Retail experience, wanted at once. Apply, giving particulars of experience and salary required (outdoors), and enclose photo if possible, to Hall & King, West Cliff Pharmacy, Folkestone.

HANTS.—Qualified Branch Manager; market town, Fareham; Prescribing, Photography, some Optics and Dentistry useful, not essential; good-class shop and business; large modern house; electric light; salary plus good commission, thus deriving benefit of energy and successful management. State full particulars, experience, age, salary, photo, references, married, when at liberty, Foster, "Ivydale," London Road, Portsmouth.

HORLEY.—Unqualified Assistant for good-class Retail and Dispensing business. Full particulars and salary required (outdoors) to A. B. Higgs, Pharmacist, Horley, Surrey.

LIVERPOOL.—£3 10*s.* per week and 10*s.* for alternate Sunday duty (four hours) offered to competent unqualified Assistant for Counter in brisk working-class business; permanency. Particulars to E. Prebble, Chemist, 187 Kensington, Liverpool.

LONDON.—Several vacancies for qualified, unqualified, and juniors; West End, City, and West Central branches; reasonable progressive salary; pleasant comfortable berth; permanency; outdoors. Apply, stating age, height, experience, also salary expected, to Cofman's Pharmacy, 6 Bloomsbury Street, London, W.C. 1.

LONDON, E.—Elderly qualified Assistant required for business situate in working-class neighbourhood; comfortable berth. Apply "B." (120/351), Office of this Paper.

LONDON, E.—Qualified Assistant to take charge of Dispensing department. Apply, personally if possible, to "H. C.," 72 Southampton Row, W.C.

ONDON, N.W.—Qualified Managing Assistant for good-class Dispensing and Retail business; experienced, and able to e control in absence of proprietor; good opening for the right n. Apply 118/27, Office of this Paper.

ONDON, N.W.—Elderly qualified Assistant required; state age, experience, and salary required. Apply 120/352, Office of Paper.

ONDON, N.W.—Qualified Manager wanted for good working class and middle-class Retail business; a good opportunity energetic man to get on; nice house attached; reply, stating , experience, salary required. Also qualified man for evenings, 0 to 8 o'clock. Send particulars to Travis, 203 Whitecross eet, E.C.

ONDON, S.E.—Assistant for small Drug Stores; medium working-class neighbourhood; doing about £25 weekly; one h view to purchase preferred, either for cash or easy terms; -up shop; please send full particulars and salary required; to, if possible, to be returned. Apply "Drugs" (121/19), ce of this Paper.

ONDON, S.E.—Good Assistant wanted for suburban business; hours 9 to 8 (outdoors). State full particulars, Jones, c/o gg, 44 Church Lane, Old Charlton, S.E. 7.

ONDON, S.E.—Young Junior Assistant for a quick Retail and Dispensing business; hours 10 a.m. to 8.30 p.m., Saturdays 9 p.m., two hours for meals, Thursdays to 1 p.m., no Sunday y. State age, wages (outdoors), and give reference, the sser Roberts Co., Pharmaceutical Chemists, 323 Walworth d.

ONDON, S.W.—Junior Assistant for good-class Family and Dispensing business. Full particulars, salary required, ex- ence, age, etc., 119/14, Office of this Paper.

ONDON, S.W.—Competent qualified Assistant; capable of man- agement; good-class Retail and Dispensing. Apply with full ticulars, stating experience, salary (outdoors), etc., Gray, 5 h Street, Barnes.

ONDON, S.W.—Capable lady Dispenser wanted; give experience and salary required. Apply 120/35, Office of this Paper.

ONDON, S.W.—Qualified Manager required for good business situate amongst the artisan population; excellent opportunity man anxious to get on; good house accommodation. "S.W." 0/353), Office of this Paper.

ONDON, W.—Junior Assistant; hours 8.30 a.m. to 7 p.m.; outdoors; Dispensing and small Wholesale trade. Reply, ting salary required and usual particulars, to "M." (128/35), ce of this Paper.

ONDON, W.—Sharpe & Son require a competent Assistant with good Dispensing experience; outdoors. Particulars of mer engagements, age, salary, and when disengaged, to J. I. P., c/o Sharpe & Son, 34 High Street, Notting Hill te, W.

ANCHESTER.—Wanted, qualified Manager; Cash Retail and N.H.I.; no Sunday or half-holiday duty; give usual par- ulars. Apply 114/31, Office of this Paper.

ANCHESTER.—Unqualified Assistant or capable Junior for good-class Light Retail and Dispensing business. Apply, h full particulars, to J. S. Breese, Pharmaceutical Chemist, sholme.

ANCHESTER.—Manager (qualified) required as soon as pos- sible for branch; good-class cash Retail, very small N.H.I. ly, giving full particulars as to age, experience, salary ex- ted, etc., to W. F. Cuttiford, Pharmacist, 249 Bolton Road, dleton.

ANCHESTER.—Qualified Manager wanted for working-class business. Apply, with full particulars and salary required, /350, Office of this Paper.

ARGATE.—Gentlemanly Assistant (outdoors); about 24; good- class Retail and Dispensing business. Full particulars ions experience, age, height, salary, when disengaged, W. M. ser, Baily & Co., 2 Ethelbert Terrace, Margate.

XFORD.—Wanted, a qualified lady Assistant for a high-class Retail and Dispensing business. Please state age, experience, salary required (outdoors), to Cousins, Thomas & Sons, nists, 63 Banbury Road, Oxford.

ORTHCAWL.—Junior Assistant wanted as soon as possible; good experience gained. Full particulars in first letter, . Duck, Porthcawl.

RYDE, I.W.—Gibbs & Gurnell have a vacancy for a thoroughly competent Assistant, principally for Counter. Please give full particulars of experience in first letter, also state age, height, and salary required.

SHEFFIELD.—Wanted, qualified Assistants to manage Branch, Light Retail and Dispensing. Full particulars, age, experience, salary required, etc., 121/38, Office of this Paper.

SOUTH KENSINGTON.—Junior Assistant, qualified, required for Branch and to help in main business. Reply, stating experience, salary required, etc., to "Chemicus" (121/18), Office of this Paper.

SUNDERLAND.—Wanted, a qualified Assistant; N.H.I. work. State age, references, and wages, J. G. Harrison, Pharmacist, 91 Hylton Road, Millfield, Sunderland.

WEST LONDON.—Manager; about 35; single-handed; unqualified; interest in profits, and every encouragement to really competent man well up in Photography, Window-dressing, and Counter; knowledge of Optical work an advantage; references must bear the strictest investigation. Send full particulars to 119/19, Office of this Paper.

WHITBY.—Capable Assistant required for summer months; must be a good Counterman and have knowledge of Photography; hours 8.30 to 6, Wednesday to 1, Saturday to 7. Apply, stating previous experience and salary expected, to William Ruff, Rexall Pharmacy, Whitby.

WOKING.—Wanted, in a good-class Pharmacy, a capable Assistant, chiefly for Dispensing. Apply, with full particulars as to salary, qualifications, etc., to A. Lloyd Davies, Pharmacist, Woking.

ADVERTISER desires to engage Branch Manager who is a sound business man, of strict integrity, experienced in high-class Dispensing and Retail; failures in business need not apply; co-partnership to suitable live man; residence attached; healthy seaside town. Apply, giving age, height, salary required, and details of experience, to "Ajax" (119/24), Office of this Paper.

ASSISTANT required with good all-round experience. Mellin's Pharmacy, 48 Regent Street, W. 1.

ASSISTANT wanted for Counter and Dispensing; unqualified; outdoors. Apply, stating experience, salary required, etc., to F. H. King, 178 Hamlet Court Road, Westcliff-on-Sea.

ASSISTANT for good-class Retail and Dispensing business; accurate Dispenser and good Counterman. Full particulars of exprience and salary required to Lloyd, 267 King's Road, Chelsea, S.W. 3.

ASSISTANT required (unqualified) for good Family Retail, Dispensing, and Photographic business; outdoors; attractive district; short hours. Reply, with full particulars of age, previous experience, and salary required, to J. W. Todd, Pharmaceutical Chemist, Camberley, Surrey.

AT Once.—Lady Managing Assistant, able to take sole charge when required of a good-class Village Retail and Dispensing business; Hall or Minor qualification; age about 30; must have good Dispensing experience, well up in Counter work and prices, and a good Saleswoman; patient and courteous with customers; a good salary offered; short hours; Sunday duty optional. Full particulars and references, salary asked, Mr. Coombes, Chemist, Great Missenden.

CLERK wanted; used to large Retail; quick and accurate; Kensington district. Full particulars to 121/22, Office of this Paper.

COMPETENT Manager required for branch in the West End of London (outdoors); share of profits in addition to salary; excellent opportunity for energetic and experienced young man. Apply "Z." (117/15), Office of this Paper.

COMPETENT young Assistant for good-class Dispensing and Retail business; either sex. Salary and particulars of experience to J. and H. A. Averill, Pharmaceutical Chemists, Stafford.

DISPENSER required (at once) in private practice; previous experience, or with Chemist essential; hours 9 to 9, with two hours' dinner and two hours' tea, Sunday duty two hours. Address Dr. Thornton, 573 Romford Road, Forest Gate.

DISPENSER wanted; evenings only. Apply Wm. Fox & Sons, Ltd., 111 Bethnal Green Road, E. 2.

DRUG Store Manager for London, E.; unregistered; outdoors; no schedules kept; fixed salary and share of profits; no Sunday duty; no Dispensing; comfortable progressive berth for good Salesman looking for a permanency. State in first letter age, experience, and salary expected, to 116/31, Office of this Paper.

GENTLEMAN or lady Dispenser required by Doctor in a country town within 60 miles of London. Apply, stating age, experience, and salary required, 120/40, Office of this Paper.

IMPROVER or Junior wanted (at once) (outdoors) in good-class Light Retail Dispensing business; knowledge of Photography preferred; send full particulars, including salary required, references, and photo if necessary; easy hours. McKee, Chemist, 114 Churchfield Road, Acton, W. 3.

JUNIOR Assistant or Improver wanted for Light Retail and Dispensing business (outdoors). Apply, stating full particulars as to age, experience, and salary required, to Gregory & Wrenn, Chemists, Taunton.

JUNIOR Assistant wanted for Counter and some Dispensing. Bates, Brooks's Bar, Manchester.

JUNIOR; qualified or unqualified; must be quick and energetic, and of good appearance and address; lady not objected to. Apply or write, enclosing photo and references, and stating salary required, Brodribb, 344 Mare Street, Hackney, opposite Hackney Station

JUNIOR Assistant; used to Dispensing and a brisk trade. Full particulars to Snowden Kirk, 6 Crisp Street, Poplar, E. 14.

JUNIOR Assistant required, with some knowledge of Dispensing, for good-class Retail and Dispensing business; outdoors, or room found. Apply, with full particulars and salary expected, to G. W. Gray, 194 Holland Park Avenue, W. 11.

JUNIOR.—Good opening for smart, energetic man in high-class Dispensing business near Birmingham; time for study if required. Apply, stating salary and usual particulars, 120/29, Office of this Paper.

LADY Pharmacist for Pharmacy in country town near Dukeries; comfortable compact shop; short hours; good salary to suitable woman. Usual particulars to E. J. Latham, M.P.S., Shirebrook, near Mansfield

MANAGER, qualified, wanted (at once) for small country business; age 30 to 45; married. Reply, by letter, stating references and salary required, to Lambert, 52 Aldboro Road, Seven Kings, Essex.

MINOR Qualification.—Lady Assistant wanted for Dispensing, Counter work, and Poisons in Chemist's shop, S.E. district; short hours; salary four guineas weekly. Apply 115/4, Office of this Paper.

PART-TIME Assistant required; lady or gentleman; hours can be arranged to suit applicant; would suit one wishing to gain experience; near the Colleges. Thomas, Chemist, Old Town, Clapham, S.W. 4.

PART-TIME Assistant wanted in a high-class Dispensing business (Western district), for Manufacturing Purposes and Dispensing; must have served an indentured apprenticeship and be well recommended for diligence and accuracy; state age and full particulars of previous engagements and salary expected. Apply 123/11, Office of this Paper.

QUALIFIED Assistant required for quick Cash trade and Dispensing. State experience, age and salary required, and when at liberty, Norton 359 Birchfield Road, Perry Barr, Birmingham.

QUALIFIED Assistant (lady or gentleman) for Counter and N.H.I.; working-class district; hours 9 a.m. to 7.30, Thursdays 1, no Sunday duty. State salary and full particulars to Horn, Chemist, Goldthorpe, near Rotherham.

QUALIFIED single young man required; one who has had good experience and is anxious to make progress; Midland district; excellent opening. Apply "H. L." (120/354), Office of this Paper.

QUALIFIED Assistant for good-class quick Country Retail and Dispensing business; good house provided. Full particulars in application of age, experience, and salary required to Trimming & Co., Ltd., Alton, Hants.

REQUIRED, about May 5th, unqualified Assistant (outdoors), unmarried, for quick middle-class business, Dispensing and Counter; state age, height, salary required, send photo if possible, and give references in first letter; applications declined if unanswered within three days. A. Middleton & Son, Chemists, Nottingham.

REQUIRED (immediately), Assistant (outdoors) for Mixed Country business; no N.H.I. Dispensing; hours 9 a.m. to 8 p.m., Saturdays 9 a.m. to 9 p.m., Wednesday half-holiday; good and obliging Counterman; good references necessary; state age, salary required. W. J. Mousley, Chemist, Redditch.

TEMPORARY Assistant for six months, unqualified, with view to permanency; easy hours, no Sunday duty. Full particulars, salary required, etc., in first letter, to Whittle, Chemist, Hednesford, Staffs.

UNQUALIFIED Assistant; young; capable of taking charge when required; live in or out, former preferred; easy hours; no Sunday duty. Wyatt, Broadway, Barnes, S.W.

UNQUALIFIED Assistant required for quick Retail and N.H.I. Dispensing. State age, experience, and salary required to F. F. Graham, 99 Leek Road, Smallthorne, near Stoke-on-Trent.

UNQUALIFIED Assistant required, lady or gentleman, for Dispensing and Counter; 1½ hour's duty alternate Sundays; used to quick Cash trade preferred. Parkhouse, 70 Beckenham Road, Beckenham.

UNQUALIFIED Assistant wanted (outdoors) for Mixed business and N.H.I. Dispensing. One other kept; state salary required and usual particulars. S. Hall & Son, Littleborough, near Manchester.

WANTED, qualified Manager for good-class country business view to succession. Apply Mrs. J. B. Harris, 67 South Street Southmolton, N. Devon.

WANTED, lady Assistant who has had experience in Dispensing for two or three years. State age, qualifications, and send referenee to Heaton & Son, Burnley.

WANTED, qualified Chemist for supervising N.H.I.; elderly light post; permanency to suitable man. Apply, with full particulars and salary required, to Boulton's, Hainton Square Grimsby.

WANTED, qualified Manager, capable, energetic, and of good appearance, for good-class business; salary £234; outdoors tea provided; easy hours. Apply 119/28, Office of this Paper.

WANTED (immediately), a thoroughly experienced lady Dispenser and Bookkeeper; good references essential; state full particulars and salary asked. Apply Dr. Somerville, Leek, Staffordshire.

WANTED (immediately), for Sheffield house, smart Assistant having thorough knowledge of Photographic business; must be live and energetic; excellent prospects. Full particulars of experience, etc., to Wallace Heaton, Ltd., 84 High Street, Sheffield

WANTED, qualified Assistant for West-End Pharmacy; good prospects. Apply personally the Manager, Heppells, 35 Hay market.

WANTED, Manager for Chemist and Drug Department (qualified); turnover £100 weekly; N.H.I. Dispensing; one lad Assistant and boy kept. Apply without delay, stating salary etc., to Co-operative Society, Ltd., Long Eaton, near Nottingham

WANTED, lady Dispenser and Bookkeeper. State salary required and references. Middleton & Co., Chemists, Saltburn by-the-Sea.

WANTED, Junior or Assistant, with good Dispensing experience; wanted early. Please give particulars of experience and state salary expected, Amon, Chemist, Streatham Common S.W. 16.

WANTED, reliable Assistant for General Retail and Dispensing; used to good-class country trade; some knowledge of Photography desirable. Apply, stating terms (outdoors), age references, when disengaged, Oliver, Chemist, Maidstone.

WANTED, unqualified Assistant, about 30, with good Dispensing and Counter experience and knowledge of Photography; short hours. State age, salary required, and reference to L. E. Wixey, Chemist, Nailsworth, Glos.

WANTED, unqualified Assistant for Speciality and Proprietary business; permanent and prospective situation; hours 9 to 9. Hulme, Chemist, Nottingham.

WANTED, for high-class Pharmacy, an unqualified Assistant (lady or gentleman). Apply, full particulars, to Tenison Smith, Ryde, Isle of Wight.

WANTED (at once), middle-aged gentleman for country village Stores, with knowledge of Grocery; qualified; permanency. State salary, etc., and other particulars, to Mr. S. Crowson, North End, Tetney, Grimsby, Lincs.

WANTED (immediately), Manager, qualified, near Manchester; comfortable berth; permanency; full particulars, salary, experience, references. Apply 122/39, Office of this Paper.

WANTED, qualified Assistant for Light Country business; easy hours, with no Sunday duty; comfortable berth; beautiful country and scenery; fortnight's holiday in September this year. Please apply, with particulars, to "Menthol" (122/18), Office of this Paper.

YOUNG lady required for Dispensing Counter; Hall qualification. Apply, with usual particulars as to salary required and experience, Newton Wright, High Road, Ilford.

£250 PER annum salary (outdoors); must have Minor qualification and be a sound, high-class Dispenser; no Panel work; four Assistants kept; no one over 40 years need apply. Apply 121/21, Office of this Paper.

WHOLESALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

LONDON Traveller wanted with sound connection among Chemists and Perfumers; salary £5 per week and commission; variation of these terms might be entertained. State age, past experience, and full particulars to "A. I." (113/36), Office of this Paper.

MANCHESTER house requires smart Drug Invoice Clerk with experience. Apply, giving full particulars as to salary, etc., 129/19, Office of this Paper.

A LIVE SALESMAN is wanted in each of several territories to sell Toilet Preparations; only men of proved selling ability, used to earning big money, selling goods of real merit on commission, should apply; the goods have an established reputation, and sales are maintained by live press advertising and the intensive effort of an effective selling organisation. Write fully and in confidence to "L. B." (129/74), Office of this Paper.

ADVERTISING Tape.—Large London House requires Travellers (who are free to carry side line) calling upon Drapers sell Advertising Tape; Advertising Tape pays because it helps sell goods. Write "Tape," Box 187, Willing's, 125 Strand, W.C. 2.

ASSISTANT Manager required for export department; North of England; single preferred; good opening for one experienced and responsive. Give fullest particulars in reply, addressing "Progressive" (129/23), Office of this Paper.

DRUGS.—Required, a first-class Representative, experienced in Crude Drugs, for London and provinces. State experience and salary required, 128/74, Office of this Paper.

LABORATORY hand required; one used to manufacture of Galenicals; good prospects. State full experience and wages required, 117/11, Office of this Paper.

LARGE firm Wholesale Druggists in Dublin require services of qualified Chemist with Wholesale and Retail experience to take entire charge Drug Department; knowledge of buying, organising, and controlling staff, together with initiative and energy essential. Reply in strict confidence, with full particulars, experience, qualification, and salary required, to "L." (125/31), Office of this Paper.

MANAGERESS required to take charge of Packed Goods department; must be capable and able to manage and organise staff of girls, and have a good knowledge of modern methods for doing work well and quickly. State age, salary, experience, to Capal Limited, Blackburn.

MINOR (at once); several young Assistants with Minor qualification; applicants must be well versed in up-to-date Pharmacy. Apply, by letter, to 129/44, Office of this Paper.

PACKER, thoroughly used to Export and Home Packing of all kinds of Drugs, Chemicals, and Druggists' Sundries, seeks re-employment; present employers, a large firm of Australian Shippers, will furnish excellent references. Inquiries should be addressed to "Colonial" (120/2), Office of this Paper.

PROVINCIAL Limited Company require the services of a gentleman having a good knowledge of the Drug Trade and fully conversant with office detail and management; initial salary about £250; to a suitable person opportunity would be afforded of acquiring an interest; full particulars in confidence. Apply 122/33, Office of this Paper.

REPRESENTATIVE to offer as side lines to Chemists Pills, Tablets, etc., in Ireland; good commission. "A. C." (120/18), Office of this Paper.

REPRESENTATIVES for the provinces, Scotland and Ireland, to carry advertised Toilet article; small sample; liberal commission to men with good connections. State ground covered, etc., 119/190, Office of this Paper.

REPRESENTATIVE wanted for Nottingham, Leicester, Lincoln, and Northampton, with established connection amongst Chemists and Drug Stores; every encouragement given to reliable man; full particulars as to age and experience. Apply 109/340, Office of this Paper.

REPRESENTATIVE wanted for Durham and Northumberland calling on Chemists and Drug Stores; must have Drug-trade experience and connection; good prospects for man who will work conscientiously; give full particulars as to age, experience, and length of time ground worked. Apply 109/34, Office of this Paper.

SENIOR Dispenser; qualified; age about 35; able to control staff; experience of urine analysis and similar work an advantage; constant employment; hours 9 to 6.30. Saturdays 1 o'clock, no Sunday or Bank Holiday duty. Apply, stating salary required and experience, to 130/1, Office of this Paper.

SKILLED Laboratory hand; able to take charge small Laboratory; good wages and annual bonus. Full particulars, wages, experience, age, Blackwell, Hayes & Co., 54 Moor Street, Birmingham.

WANTED, several smart Travellers with good connections to push a Proprietary Line; small sample and good seller; 20 per cent. commission. State territory and full particulars in confidence to 117/19, Office of this Paper.

WANTED by London firm, making a well-known scientific speciality, gentleman (young), acquainted with Drug and Chemical trade, to assist Managing Director and manage small advertising department. Write, stating age, experience, and salary required, to "McL." (128/48), Office of this Paper.

WANTED, Pill Maker and Coater; must be experienced. State full particulars. Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

WANTED (immediately), four experienced Travellers to represent well-known firm of Druggists' Sundriesmen; must have connection on ground to be covered and knowledge of trade; liberal terms to suitable applicants; state fullest details; areas: (1) Lincolnshire, Northamptonshire, Oxfordshire, Buckingham shire, Bedfordshire, and Hertfordshire, (2) Surrey and Sussex, (3) Yorkshire, (4) Lancashire, except Liverpool and Manchester. Apply 120/8, Office of this Paper.

WANTED, capable man, with experience in the Manufacture of Toilet Specialities. Particulars of experience and salary required, The Elite Toilet Co., 57 Pershore Street, Birmingham.

WELL-KNOWN provincial house requires Representative for parts of Yorkshire, Lancashire, and North Wales; well-established connection; a man with experience is required. Apply to 129/190, Office of this Paper.

WET and Dry Counter Assistants; must be capable and experienced; wages £2 12s. 6d. Apply, stating full particulars of age and previous experience, to Dakin Bros., Ltd., Wholesale Druggists, 82 Middlesex Street, E. 1.

WHOLESALE DRUGGISTS.—Wet and Dry room hands, experienced, and Junior, for Manchester district. State fully experience and wage required (confidence respected), 122/330, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

(Colonial, Indian and Foreign.)

BANGKOK, SIAM.—Qualified Assistant required; knowledge of sight testing and fitting essential; one with good-class London experience preferred; four years' agreement; salary £400, £425, £450, £500 yearly, with furnished quarters; passage paid out and home. Apply, with testimonials and photograph, to "M. H.," Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

BRITISH EAST AFRICA.—Wanted, capable, qualified Assistant for high-class Pharmacy; must be smart, energetic, and good Salesman, and of refined Counter manner; under 30 years of age; good knowledge of Photographic Material and Apparatus essential; three years' agreement; second-class passage paid out and home; progressive salary and commission; most healthy climate; enclose recent photograph, with copies of recent testimonials. Box 1366, c/o Dawson's, 121 Cannon Street, London, E.C. 4.

CALCUTTA.—Wanted, a qualified Retail man with managing experience; capable of eventually taking entire management of the Retail section (head establishment and three branches) of a large firm of Chemists in Calcutta; good prospects and wages for a really suitable man, who must have excellent references and experience. Apply to "W. T. G." (126/66), Office of this Paper.

FEDERATED MALAY STATES.—Qualified Assistant wanted, 25 to 30, unmarried, with good experience; passage paid out and home; healthy climate and beautiful surroundings; three years' agreement; £350 to £400 and £450 per annum; good prospects. Apply 130/6, Office of this Paper.

HONG KONG.—Wanted, qualified male Assistant for Retail business in Hong Kong; easy hours and no night duty; four years' agreement; salary first year $275.00 per month, second year $300.00 per month, third year $325.00 per month, fourth year $350.00 per month; passage paid out and home. Apply, in writing, to Messrs. Durant, Radford & Co., Ltd., Billiter Buildings, Billiter Street, E.C. 3.

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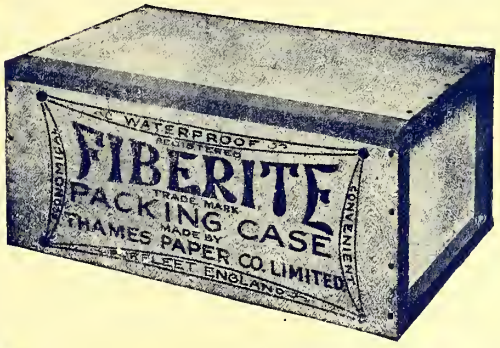
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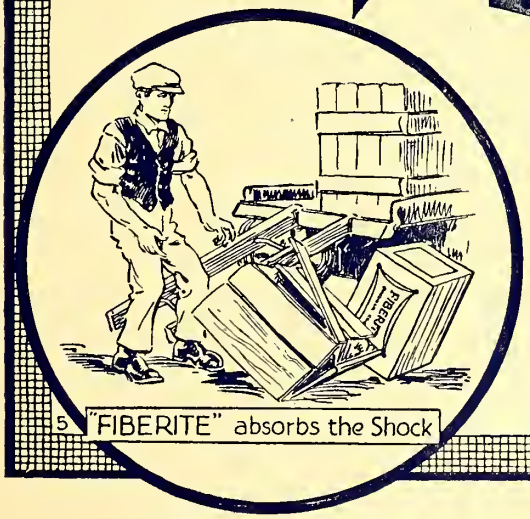
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